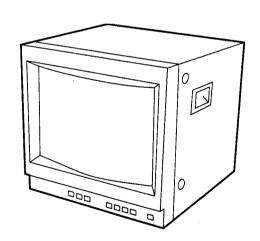
SERVICE MANUAL

SIIA CHASSIS

_						
	MODEL	DEST.	CHASSIS NO.	MODEL	DEST.	CHASSIS NO.
	PVM-14N5A	AUS	SCC-N87D-A	PVM-20N5A	AUS	SCC-N87F-A
	PVM-14N5E	AEP	SCC-N86C-A	PVM-20N5E	AEP	SCC-N86E-A
	PVM-14N5MDE	AEP	SCC-N86F-A	PVM-20N5U	US/CND	SCC-N84D-A
	PVM-14N5U	US/CND	SCC-N84B-A	PVM-20N6A	AUS	SCC-N87E-A
	PVM-14N6A	AUS	SCC-N87C-A	PVM-20N6E	AEP	SCC-N86D-A
	PVM-14N6E	AEP	SCC-N86B-A	PVM-20N6U	US/CND	SCC-N84C-A
	PVM-14N6U	US/CND	SCC-N84A-A	SSM-20N5A	AUS	SCC-N87B-A
	SSM-14N5A	AUS	SCC-N87A-A	SSM-20N5E	AEP	SCC-N86G-A
	SSM-14N5E	AEP	SCC-N86A-A	SSM-20N5U	US/CND	SCC-N84F-A
	SSM-14N5U	US/CND	SCC-N84E-A			
			l l			



TRINITRON® COLOR VIDEO MONITOR

SONY

↑ WARNING

This manual is intended for qualified service personnel only.

To reduce the risk of electric shock, fire or injury, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so. Refer all servicing to qualified service personnel.

(PVM-14N5MDE only)

Electromagnetic Compatibility



This device compiles with the requirements of Directive 89/336/EEC concerning electromagnetic compatibility. This device meets EN50081-1/92 and EN50082-1/92.

WARNING!!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.

THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK & ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

ATTENTION!!

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÁSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DÉPANNAGE. LE CHÁSSIS DE CE RÉCEPTEUR EST DIRECTEMENT RACCORDÉ À L'ALIMENTATION SECTEUR.

ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÈS PAR UNE TRAME ET PAR UNE MARPUE À SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIECES CONT D'UNE IMPORTANCE CRITIQUE PUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÉCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY. LES RÉGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT SONT IDENTIFIES DANS LE PRÉSENT MANUEL. SUIVRE CES PROCÉDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNEMENT EST SUSPECTÉ.

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Cl	B Board

SECTION 1 OPERATING INSTRUCTIONS

This section is extracted from operating instructions

1-1. PVM-14N5/14N6 (A/E/U), PVM-20N5/20N6 (A/E/U)

3-864-157-11(2)

rrinitron_® Color Video Monitor

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lage 2		Ite 30	Página 44	95 8	
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Operating b	Mode d'em	Bedienung	Manual de	Istruzioni p	使用说明书

initron

PVM-14N5A/14N5E/14N5U PVM-14N6A/14N6E/14N6U PVM-20N5A/20N5E/20N5U PVM-20N6A/20N6E/20N6U

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SONY

Owner's Record

The model and serial numbers are located at the rear Record these numbers in the spaces provided below. Refer to these numbers whenever you call upon your Sony dealer regarding this product.

Wodel No. Serial No.

WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

Do not open the cabinet. Refer servicing Dangerously high voltage are present to qualified personnel only. inside the unit.

In the event of a malfunction or when maintenance is necessary, consult an authorized Sony dealer.

For the customers in the U.S.A.

interference in which case the user will be required to correct reasonable protection against harmful interference when the This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide accordance with the instruction manual, may cause harmful equipment in a residential area is likely to cause harmful This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in interference to radio communications. Operation of this equipment is operated in a commercial environment. the interference at his own expense.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

or the customers in the United Kingdom

On safety

WARNING THIS APPARATUS MUST BE EARTHED

MPORTANT

he wires in this mains lead are coloured in accordance with the following code:

Earth Neutral Green-and-yellow:

identifying the terminals in your plug proceed as follows:
The wire which is coloured green-and-yellow must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol + or coloured green or apparatus may not correspond with the coloured markings As the colours of the wires in the mains lead of this

terminal which is marked with the letter N or coloured black. The wire which is coloured brown must be connected to the green-and-yellow. The wire which is coloured blue must be connected to the erminal which is marked with the letter L or coloured red.

Ensure that your equipment is connected correctly - If you are in any doubt consult a qualified electrician.

ATTENTION:

Picture distortion may occur if this monitor is positioned in close proximity to any equipment emitting electromagnetic radiation.

Operate the unit only with a power source as

	lage, power	
ications" section.	ating operating vol	. Increased at the property
specified in "Specifications" section.	The nameplate indicating operating voltage, power	The second secon

Should any solid object or liquid fall into the cabinet, unplug the unit and have it checked by qualified personnel before operating it any further. consumption, etc., is located at the rear.

power immediately. It is dangerous to use the unit Do not drop or place heavy objects on the power cord. If the power cord is damaged, turn off the

Unplug the unit from the wall outlet if it is not to be with a damaged power cord.

Disconnect the power cord from the AC outlet by grasping the plug, not by pulling the cord. used for several days or more.

The socket-outlet shall be installed near the

equipment and shall be easily accessible.

On installation

 Allow adequate air circulation to prevent internal heat Do not place the unit on surfaces (rugs, blankets, etc.) or near materials (curtains, draperies) that may block the ventilation holes.

Do not install the unit in a location near heat sources such as radiators or air ducts, or in a place subject to direct sunlight, excessive dust, mechanical vibration

On cleaning

To keep the unit looking brand-new, periodically clean safety precaution, unplug the unit before cleaning it. it with a mild detergent solution. Never use strong cleansers since they will damage the cabinet. As a solvents such as thinner or benzine, or abrasive

On repacking

Do not throw away the carton and packing materials. They make an ideal container which to transport the If you have any questions about this unit, contact your authorized Sony dealer.

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About this manual

Before operating the unit, please read this manual thoroughly and retain it for future reference. The explanation given in this manual can be applied to When explanation differs among models, this is clearly the following models unless noted otherwise. indicated in this manual.

 PVM-14N6A/14N6E/14N6U (14-inch monitor) PVM-20N5A/20N5E/20N5U (20-inch monitor) PVM-20N6A/20N6E/20N6U (20-inch monitor)

PVM-14N5A/14N5E/14N5U (14-inch monitor)

Illustrations of the video monitor are for the PVM-20N6A/20N6E/20N6U.

က

Fine pitch Trinitron¹⁾ picture tube

The fine pitch Trinitron tube provides a high resolution picture. Horizontal resolution is more than 500 TV lines at the center of the picture.

When NTSC video signals are received, a comb filter activates to make more accurate Y/C separation. This contributes to less of a decrease in resolution, cross color and cross luminance phenomena.

Beam current feedback circuit

The built-in beam current feedback circuit assures stable white balance.

Four color system available

The monitor can display NTSC, PAL, SECAM and NTSCand signals. The appropriate color system is selected automatically.

Input

(for PVM-14N6A/14N6E/14N6U/20N6A/20N6E/ Analog RGB input connectors 20N6U only)

Analog RGB signals from video equipment can be input through these connectors.

Y/C input connectors

and the luminance signal (Y), can be input through this two signals, which tends to occur in a composite video The video signal, split into the chrominance signal (C) connector, eliminating the interference between the signal, ensuring video quality.

Automatic termination

(connector with √√ mark only)

when no cable is connected to the loop-through output The input connector is terminated at 75 ohms inside connector, the 75-ohm termination is automatically connector. When a cable is connected to an output released.

Functions

Front

Location and Function of Parts and Controls

On-screen menus

You can set monitor operation settings by using the on-screen menus.

EIA standard 19-inch rack mounting

By using an MB-502B mounting bracket (for a 14-inch monitor, not supplied) or SLR-103A slide rail (for a 20-inch monitor, not supplied), the monitor can be mounted in an EIA standard 19-inch rack.

Attention - when the product is installed in a rack:

assembly, the operating ambient temperature of the rack environment may be greater than room · Elevated operating ambient temperature If installed in a closed or multi-unit rack

rated ambient temperature of 0 to +35 °C (Tmra). compatible with the manufacturer's maximum Therefore, consideration should be given to installing the equipment in an environment Reduced air flow

such that the amount of air flow required for safe Installation of the equipment in a rack should be operation of the equipment is not compromised.

• Mechanical loading

Mounting of the equipment in the rack should be such that a hazardous condition is not achieved due to uneven mechanical loading.

of the equipment to the supply circuit and the effect that overloading of circuits might have on • Circuit overloading
Consideration should be given to the connection overcurrent protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.

should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuit (e.g., use of Reliable earthing of rack-mounted equipment power strips).

MENU buttons 000 000 D LINE A/LINE B/RGB buttons

Speaker

88 (

E E

LINEA

MENU buttons

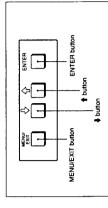
© ©POWER switch and indicator

For detailed information on MENU buttons, see "Operation through On-Screen Menus" on page 9. Press to make the menu appear.

Q LINE A/LINE B/RGB (input select) buttons

Speaker

Press to select the program to be monitored.



a) Provided with the PVM-14N6A/14N6E/14N6U/20N6A/ 20N6E/20N6U only.

LINE B LINE A HGB.

Signal fed through the LINE B connector Input signal Signal fed through the LINE A connector

Signal fed through the RGB connectors*)

Press to turn the monitor on. The indicator lights in

To turn the power off, press this again.

1) Trinitron

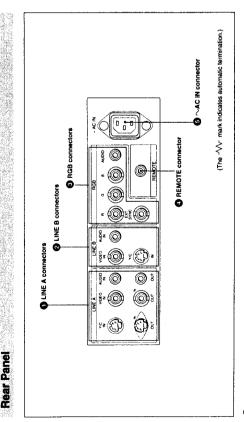
'Trinitron' is a registered trademark of Sony Corporation.

2) NTSCan

The NTSC4.0 system refers to an NTSC color system in which the subcarrier frequency is modified to 4.43MHz. When an NTSC recorded video program is played back with a Trident (PAL/SECAM/NTSC4.0) VTR, the NTSC240 signal is output.

Location and Function of Parts and Controls

Rear Panel



D LINE A connectors

Input connectors for the composite video, Y/C separate video and audio signals and their loop-through output connectors, press the LINE A button on the front To monitor the input signal fed through these connectors.

panel

The Y/C IN connector has priority over the VIDEO IN connector.

the Y/C IN connector is automatically selected and the VIDEO IN connector is disconnected even if the cable When connecting the cable to the Y/C IN connector, is connected.

Y/C IN connector (4-pin mini-DIN)

Connect to the Y/C separate output connector of a video camera, VCR or other video equipment.

Y/C OUT connector (4-pin mini-DIN)

Connect to the Y/C separate input connector of a VCR Loop-through output of the Y/C IN connector. or another monitor. When the cable is connected to this connector, the 75ohm termination of the input is automatically released, and the signal input to the Y/C IN connector is output from this connector.

VIDEO IN connector (BNC-type)

For a loop-through connection, connect to the video equipment, such as a VCR or a color video camera. Connect to the video output connector of video output connector of another monitor.

VIDEO OUT connector (BNC-type)

connector. Connect to the video input connector for a Loop-through output connector of the VIDEO IN VCR or another monitor.

ohm termination of the input is automatically released, When the cable is connected to this connector, the 75and the signal input to the VIDEO IN connector is output from this connector.

AUDIO IN connector (phono jack)

Connect to the audio output connector of a VCR or other equipment. For a loop-through connection, connect to the audio output of another monitor.

AUDIO OUT connector (phono jack)

Loop-through output of the AUDIO IN connector. Connect to the audio input connector of a VCR or another monitor.

D LINE B connectors

Input connectors for the composite video, Y/C separate video and audio signals.

To monitor the input signal fed through these connectors, press the LINE B button on the front panel.

Y/C IN connector (4-pin mini-DIN)

connector

Connect to the Y/C separate output connector of a video camera, VCR or other video equipment.

For a loop-through connection, connect to the video equipment, such as a VCR or a color video camera. Connect to the video output connector of video output connector of another monitor. VIDEO IN connector (BNC-type)

AUDIO IN connector (phono jack)

Connect to the audio output connector of a VCR or other equipment. For a loop-through connection, connect to the audio output of another monitor.

provided with the PVM-14N6A/14N6E/14N6U/ 8 RGB connectors

20N6A/20N6E/20N6U only)

Analog RGB input connectors for the R/G/B signals. connectors, press the RGB button on the front panel. To monitor the input signal fed through these external sync signals and audio signals.

R/G/B (input) connectors (BNC-type)

The monitor also can operate on the sync signal from Connect to the analog RGB outputs connectors of a the G channel by setting RGB SYNC to SYNC ON video camera, VCR or other video equipment. The monitor operates on the external sync signal. GREEN in the menu. For detailed information on sync signal setting, see " $\frac{3a}{4}$ RGB SYNC menu "on page 12 of "Functions of On-Screen

AUDIO IN connector (phono jack)

Connect to the audio output connectors of video equipment when the analog RGB signal is input.

EXT SYNC (external sync input) connector

(BNC-type)

the menu, the monitor operates on the sync signal from When you set RGB SYNC to SYNC ON GREEN in Connect to the sync signal output of a video camera, the G channel so that it is not necessary to use this VCR or other video equipment.

For detailed information on sync signal setting, see "[3a] RCB SYNC menu "on page 12 of "Functions of On-Screen Menus .

♠ REMOTE connector (phono jack) (provided with the PVM-14N6A/14N6U / 20N6A/20N6E/20N6U only)

Open: When this connector is open, the current input This connector functions as follows.

signal selected before the current signal is selected. Ground: By grounding this connector, the input signal is selected.

Connect the supplied AC power cord to this connector ⑤ ∼AC IN (inlet) connector

and to a wall outlet.

/

You can make various settings and adjustments of the monitor using the on-screen menus.

On-Screen Menu Configuration

The on-screen menu is composed of the following two

Item selection menu

sound volume, contrast, brightness, color intensity, color system and menu language by using the \(\dagger, and You can select an adjustment and setting item such as ENTER buttons.

Adjustment and setting menus

To reset the settings and adjustments to the factory-settings, select "FACTORY PRESET" from 2d USER MEMORY menu. remain unchanged until next adjustment even if you corresponding menu. The settings and adjustments You can make desired adjustment or setting on turn off the power.

O + button Ø ♦ button MENU/EXIT button

Button functions depend on the displayed menu. The following table shows the button functions on the item

Adjustment and setting menus

Item selection menus

On-screen menu tree-chart

1 MENU 1

Regular screen

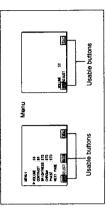
16 BHIGHTNESS menu 1d CHROMA menu 16 PHASE menu

1b CONTRAST menu

1a VOLUME menu

Button	Function on the item selection menus	Function on the adjustment and setting menus	
• MENU/EXIT	To return to the regular screen.	To return to the item selection menu.	
+0	To move the cursor downward.	To decrease value/ select item.	
10	To move the cursor upward.	To increase value/ select item.	•
@ ENTER	To decide a selected item.	To decide a selected item⁴.	,

Usable buttons depend on the displayed menu. Buttons that can be used on the menu are displayed at the bottom line of the screen. You can perform menu operation using displayed buttons.



Operating procedures

Display of the usable menu operation buttons

To display the menu, follow this procedure.

Press the MENU/EXIT (1) button. 2 MENU 1 appears. To select items other than ones not displayed on

Select 2 MENU 2 or 3 MENU 3 ".

MENU 1

For details of how to select, see the "To change the item selection menus" described later.

2 Move the cursor to the desired item by pressing the

♦ or ♠ (@, @) button.

The adjustment and setting menu selected in step 2 3 Press the ENTER (4) button. appears.

For detailed information of menus, see "Functions of On-

Screen Menus" on page 10.

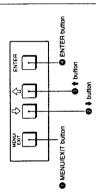
1) [3] MENU 3 is provided with PVM-14N6A/14N6E/14N6U/20N6A/20N6E/20N6U only.

თ

Operation through On-Screen

Menu operation buttons

There are four menu operation buttons on the front panel of the monitor.



selection menus and adjustment and setting menus.

2a COLOR SELECT menu

2 MENU 2

2d USER MEMORY menu

2c LANGUAGE menu

2b DISPLAY menu

a) You can use the ENTER button only on the 2d USER MEMORY menu of the adjustment and setting menus.

a) These menus (3]. [34] and [35]) are provided with PVM-14N6A/14N6E/14N6U /20N6A/20N6E/20N6U only.

3b ASPECT RATIO menu*

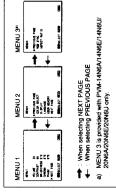
3a RGB SYNC menu*

3 MENU 3ª

8

To change the item selection menus

Select NEXT PAGE on the menu to display next item selection menu and PREVIOUS PAGE on the menu to display the previous item selection menu.



How to change the item selection menu

To return to the item selection menu from the adjustment and setting menus Press the MENU/EXIT () button on the currently

displayed adjustment and setting menu.

To close the menu (to return to the regular

Press the MENU/EXIT (1) button when the item selection menu is displayed. The on-screen menu disappears and the regular screen appears. screen)

adjusted last time is displayed.

- VOLUME
 - CONTRAST
 - BRIGHTNESS
 - CHROMA

Then you can adjust the item immediately.

Functions of On-Screen Menus

Item selection menus

MENU 1

MENU I menu has the following selection items.

Item	Functions
VOLUME	To obtain the desired volume
CONTRAST	To adjust the contrast
BRIGHTNESS	To adjust the brightness
CHROMA	To adjust the color intensity
PHASE	To adjust the phase

[2] MENU 2 MENU 2 menu has the following selection items.

item	Lanction
COLOR SELECT	To select the color system of the
	input signal
DISPLAY	To select period of display
LANGUAGE	To select the menu language
USER MEMORY	To store and recall the values and
	settings adjusted by a user, and recall
	the factor-eattings

(for PVM-14N6A/14N6E/14N6U/20N6A/ 20N6E/20N6U only)

MENU 3 menu has the following selection items.

пеш	runction
RGB SYNC	To select the sync signal when the RGB signals are input
ASPECT RATIO	To select the aspect ratio

Adjustment and setting menu

1a VOLUME menu (Factory setting: 50)



The volume increases by pressing the 4 button. The volume decreases by pressing 🖶 button. Adjust the speaker volume.

1b CONTRAST menu (Factory setting: 80)

CONTRAST 89 BBAO JAST

The contrast becomes higher by pressing the 4 button. Adjust the contrast of the screen.

1c BRIGHTNESS menu (Factory setting: STD)

The screen becomes brighter by pressing the 4 button. The screen becomes darker by pressing 🛡 button. Adjust the brightness of the screen.

1d CHROMA menu (Factory setting: STD)



The color intensity strengthens by pressing the 🕈 Adjust the color intensity of the video signal.

The color intensity weakens by pressing 4 button.

Note

The color intensity of an composite video signal or a Y/C separate signal can be corrected on this menu. That of the RGB signals cannot be corrected.

1e PHASE menu (Factory setting: STD)



The skin tone becomes greenish by pressing the 🕈 Adjust the phase of the video signals.

The skin tone becomes purplish by pressing the button. button.

Y/C separate signal can be corrected on this menu. The PAL composite video signal or a Y/C separate signal The phase of an NTSC composite video signal or a and RGB signals cannot be corrected.

2a COLOR SELECT menu (Factory setting: AUTO)



AUTO: Input color systems are automatically Select the color system of the input signal. selected.

activate. To monitor NTSC signal with trap filter, When you input NTSC signal, comb filter will select NTSC in this menu.

(Factory setting: SHORT TIME) 2b DISPLAY menu



Select the period of displaying the color system of the current input signals

The items have the following functions.

ttem	Function
SHORT TIME	To display the kind of color system
	being used for several seconds on the
	screen each time you change the
	signal input.
LONG TIME	To display the kind of color system
	being used for approximately five
	minutes on the screen each time you
	change the signal input.
OFF	Not to display the kind of the color
	evetorn

2c LANGUAGE menu (Factory setting: ENGLISH)



Select the menu language among the five languages, English, German, French, Italian and Spanish.

=

2d USER MEMORY menu

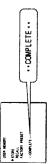
PECALL RECALL FACTORY PRESET Mestreci era USER NENDRY

The items have the following functions.

Item	Function
STORE	To store all adjustments and
	settings currently set on each menu into the internal memory.
RECALL	To recall all adjustments and
	settings currently stored in the
	internal memory.
FACTORY PRESET	To reset the adjustments and
	settings currently set on each
	menu to the factory settings.**

stored in the internal memory by using the STORE memor, however, are not obtaiged. To reset internally stored adjusted values and settings to the factory setting select FACTORY PRESET, first, then select STORE. The current settings and adjusted values are reset to the factory settings. The values and settings adjusted and

When you press the ENTER (4) button, the following currently selected item becomes active when pressing message is displayed for about two seconds. The the ENTER (4) button.



14N6A/14N6E/14N6U /20N6A/20N6E/20N6U only The following menus are provided with the PVM-

3a RGB SYNC menu (Factory setting: EXT SYNC)



Select the sync signal when the RGB signals are input. The items have the following functions.

E E	Function
XT SYNC	To operate the monitor on an
	external sync signal fed through the RGB SYNC connector.
YNC ON GREEN	To operate the monitor on the sync
	sional from the G channel

3b ASPECT RATIO menu (Factory setting: 4:3)



Select the aspect ratio of the screen.

How to Connect the AC Power

NTSC, PAL, SECAM, NTSCAR 500 TV lines Color system Resolution Connect the AC power cord (supplied) to the ~AC IN

6 MHz±3dB (Y signal) 6 MHz±3dB LINE

connector and to a wall outlet.

Picture performance

7 % over scan of CRT effective

Less than 8.0 % (typical) Less than 7.0 % (typical) H. linearity V. linearity

How to Connect a Cable to a BNC Connector Connect the coaxial cable with the BNC connectors to the BNC connectors on the rear panel as illustrated

See the pin assignment on the next page. BNC connector (×2), IVp-p +3 dB,

AUDIO IN Phono jack (x2), -5 dBu", more than 47 kilo-ohms

BNC connector (x3) 20N6U only) R/G/B

0.7 Vp-p +3 dB, -6 dB

than 47 kilo-ohms EXT SYNC BNC connector (x1) Phono jack (×1)

Video signal

Frequency response

Normal scan

Color temperature D65

Inputs

LINE A/B

4-pin mini-DIN(x2) VIDEO IN Y/C IN

-6 dB, sync negative

RGB (PVM-14N6A/14N6E/14N6U/20N6A/20N6E/

Sync on green: 0.3 Vp-p, negative Phono jack (×1), -5 dBu², more AUDIO IN

REMOTE (PVM-14N6A/14N6E/14N6U/20N6A/ 20N6E/20N6U only) 4 Vp-p +3 dB, -6 dB, sync

Insert the connector into the BNC connector or the terap fanel, matching the silt and pin, and turn the cable BNC connector obcowise to secure the BNC connector of a coaxial cable.

Open: currently selected input signal Low state (GND): input signal selected prior to the current input

a) 0 dBu = 0.775 Vr.m.s.

Specifications

BNC connector (x1) loop-through, Y/C OUT 4-pin mini-DIN (x1) loop-through, Automatic 75 ohms termination Automatic 75 ohms termination VIDEO OUT Outputs LINEA

Phono jack (x1) loop-through Speaker output Output level: 0.8 W AUDIO OUT

General CRT

14-inch CRT with P-22 phosphor 20-inch CRT with P-22 phosphor (13-inch measured diagonally) PVM-14N5A/14N5E/14N5U/ Visible picture size 340 mm Visible picture size 490 mm PVM-20N5A/20N5E/20N5U/ 20N6A/20N6E/20N6U: 14N6A/14N6E/14N6U:

(19-inch measured diagonally) Power consumption

PVM-14N5A/14N5E/14N5U: 80W PVM-14N6A/14N6E/14N6U: 80W PVM-20N5U/20N6U: 100W PVM-20N5A/20N6A/20N5E/ 20N6E: 105 W 100 to 240 V AC, 50/60Hz
"For use of PVM-14N5U/14N6U/
20N5U/20N6U", operate these
monitors on 120 V AC. Power requirements

Humidity 0 to 90% (no condensation) Temperature 0 to +35°C Operating conditions

Transport and Storage conditions Temperature -10 to +40°C Humidity 0 to 90%

346 × 340 × 414 mm (13%× 13½ × 16% inches) PVM-20N5A/20N5E/20N5U/ Approx. 15 kg (33 lb 1 oz) PVM-20N5A/20N5E/20N5U/ PVM-14N5A/14N5E/14N5U/ PVM-14N5A/14N5E/14N5U/ Approx. 28 kg (61 lb 12 oz) $(17\% \times 17\% \times 19\% \text{ inches})$ Operating Instructions (1) 14N6A/14N6E/14N6U: 20N6A/20N6E/20N6U: 14N6A/14N6E/14N6U: 20N6A/20N6E/20N6U: 449 × 441 × 502 mm Accesory supplied AC power cord (1) Dimensions (w/h/d) Mass

Pin assignment

Y/C IN connector (4-pin mini-DIN)



Pin No.	Signal	Description
	Y-input	1 Vp-p, sync negative, 75 ohms
8	CHROMA subcarrier-input	0.286 Vp-p (NTSC), 300m Vp-p (PAL), burst Delay time between Y and C: within 0 ± 100 nsec., 75 ohms
3	GND for Y-input	GND
4	GND for CHROMA- GND input	GNÐ

Design and specifications are subject to change without notice.

This section may help you isolate the problem. Should the problem persist, unplug the unit and contact your Sony dealer or local authorized Sony service facility.

Symptom	Possible causes and remedies
if colors are not accurately reproduced	The monitor input signal is deviated from the color system specifications (i.e. signals from VCRs).
	Proceed as follows to correct this phenomenon.
	1 Confirm the color system of the input signal.
	2 Select the same color system as that of the input signal on the COLOR SELECT menu.
	If the problem remains unsolved after corresponding color system is solarized briefly time OFE the power, than time ON the monitor again

7

Trinitron_® Color Video Monitor

N	L	Q	Ш		၁
Instructions for Use Page 2	Mode d'emploi Page 18	Gebrauchsanweisung Seite 34	Instrucciones de uso Página 50	Istruzioni per l'uso Pagina 66	使用说明书 82页

Trinitron

PVM-14N5MDE

@ 1998 by Sony Corporation

Owner's Record

The model and serial numbers are located at the rear. Record these numbers in the spaces provided below. Refer to these numbers whenever you call upon your Sony dealer regarding this product.

Model No. . Senal No.

WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

Do not open the cabinet. Refer servicing Dangerously high voltage are present to qualified personnel only. nside the unit.

In the event of a malfunction or when maintenance is necessary, consult an authorized Sony dealer.

Power Switch
The power switch is a functional switch only. To isolate
the set from the mains supply remove the mains plug
from the wall stocket.

For the customers in the U.S.A

interference in which case the user will be required to correct This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the accordance with the instruction manual, may cause harmful equipment in a residential area is likely to cause harmful This equipment generates, uses, and can radiate radio interference to radio communications. Operation of this equipment is operated in a commercial environment. frequency energy and, if not installed and used in the interference at his own expense.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

or the customers in the United Kingdom

HIS APPARATUS MUST BE EARTHED

MPORTANT

The wires in this mains lead are coloured in accordance with the following code:

Earth Neutral Green-and-yellow:

connected to the terminal in the plug which is marked by the apparatus may not correspond with the coloured markings identifying the terminals in your plug proceed as follows: The wire which is coloured green-and-yellow must be As the colours of the wires in the mains lead of this

terminal which is marked with the letter N or coloured black. The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red. green-and-yellow. The wire which is coloured blue must be connected to the

Ensure that your equipment is connected correctly - If you are in any doubt consult a qualified electrician.

nearest office or your local environmental office in case of This unit contains substances which can pollute the environment if disposed carelessly. Please contact our disposal of this unit.

ATTENTION:

Picture distortion may occur if this monitor is positioned in close proximity to any equipment emitting electromagnetic radiation.

Precaution

On safety

sonrce as	
with a power source	" section
/ with	cations
unit only	"Specifics
erate the unit	rified in

- The nameplate indicating operating voltage, power
- Should any solid object or liquid fall into the cabinet, unplug the unit and have it checked by qualified personnel before operating it any further. consumption, etc., is located at the rear.
- power immediately. It is dangerous to use the unit Do not drop or place heavy objects on the power cord. If the power cord is damaged, turn off the with a damaged power cord.
- Unplug the unit from the wall outlet if it is not to be
- Disconnect the power cord from the AC outlet by used for several days or more.
 - The socket-outlet shall be installed near the grasping the plug, not by pulling the cord. equipment and shall be easily accessible.

On installation

Allow adequate air circulation to prevent internal heat

Do not place the unit on surfaces (rugs, blankets, etc.) or near materials (curtains, draperies) that may block the ventilation holes.

Do not install the unit in a location near heat sources such as radiators or air ducts, or in a place subject to direct sunlight, excessive dust, mechanical vibration

On cleaning

To keep the unit looking brand-new, periodically clean afety precaution, unplug the unit before cleaning it. it with a mild detergent solution. Never use strong cleansers since they will damage the cabinet. As a solvents such as thinner or benzine, or abrasive

On repacking

Do not throw away the carton and packing materials. They make an ideal container to transport the unit. If you have any questions about this unit, contact your authorized Sony dealer.

2 Ξ 5 4 Location and Function of Parts and Controls 6 Operation through On-Screen Menus On-Screen Menu Configuration Functions of On-Screen Menus, Attaching the Side Covers Using On-Screen Menus Connections Rear Panel Features

Before operating the unit, please read this manual About this manual Troubleshooting ... Specifications

4

How to Connect a Cable to a BNC Connector.. 14

How to Connect the AC Power Cord

Attention - when the product is installed in a rack: thoroughly and retain it for future reference.

assembly, the operating ambient temperature of the rack environment may be greater than room · Elevated operating ambient temperature If installed in a closed or multi-unit rack

rated ambient temperature of 0 to +40 °C (Tmra). compatible with the manufacturer's maximum ambient. Therefore, consideration should be given to installing the equipment in an environment

Installation of the equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised.

• Mechanical loading

Mounting of the equipment in the rack should be such that a hazardous condition is not achieved due to uneven mechanical loading.

effect that overloading of circuits might have on Consideration should be given to the connection of the equipment to the supply circuit and the overcurrent protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when Circuit overloading

should be maintained. Particular attention should be given to supply connections other than direct Reliable earthing of rack-mounted equipment connections to the branch circuit (e.g., use of Reliable earthing

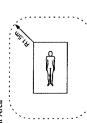
Be sure to connect the AC power cord to a grounded outlet.

Important safeguards/notices for use in the medical environments

All the equipments connected to this unit shall be certified according to Standard IEC601-1, IEC950, IEC65 or other IEC/ISO Standards applicable to the equipments.

equipment in the patient area*, the equipment shall according to Standard IEC601-1 and IEC601-1-1. be either powered by an isolation transformer or terminal to system ground unless it is certified connected via an additional protective earth When this unit is used together with other

* Patient Area



3 The leakage current could increase when connected to other equipment.

touching the rear panel input and output circuitry The operator should take precautions to avoid and the patient at the same time. 4

display video pictures from cameras or other video intended for use in a medical environment to 5 Model PVM-14N5MDE is a video monitor

Symbols on the unit

Symbol Location	Front panel	Rear panel	Inside	Rear panel	Inside	Rear panel
lon	panel	anel	Inside the unit	oanel	Inside the unit	anel
This symbol indicates	Main power switch. Press to turn the monitor on or off.	The equipotential terminal which brings the various parts of a system to the same potential.	Protective earth	Alternating current	Presence of uninsulated "dangerous voltage" within the product's enclosure that may be sufficient to constitute a risk of electric shock.	Attention, consult ACCOMPANYING DOCUMENTS

Picture

Fine pitch Trinitron¹⁾ picture tube

You can set monitor operation settings by using the

On-screen menus on-screen menus.

Functions

The fine pitch Trinitron tube provides a high resolution picture. Horizontal resolution is more than 500 TV ines at the center of the picture.

activates to make more accurate Y/C separation. This contributes to less of a decrease in resolution, cross When NTSC video signals are received, a comb filter color and cross luminance phenomena.

Beam current feedback circuit

The built-in beam current feedback circuit assures stable white balance.

The monitor can be covered with side covers. The side covers that protect the ventilation holes from splashes

Side covers

(of medicines, etc.) as much as possible.

For details on mounting, refer to the instruction manuals supplied), the monitor can be mounted in an EIA By using an MB-502B mounting bracket (not EIA standard 19-inch rack mounting

standard 19-inch rack.

supplied with the mounting bracket kit.

Four color system available

The monitor can display NTSC, PAL, SECAM and NTSC4433 signals. The appropriate color system is selected automatically.

Input

Y/C input connectors

The video signal, split into the chrominance signal (C) and the luminance signal (Y), can be input through this two signals, which tends to occur in a composite video connector, eliminating the interference between the signal, ensuring video quality.

Automatic termination

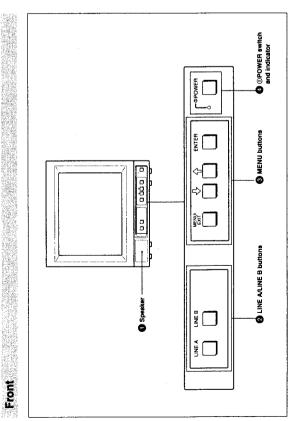
when no cable is connected to the loop-through output The input connector is terminated at 75 ohms inside connector, the 75-ohm termination is automatically connector. When a cable is connected to an output (connector with -∿ mark only)

1) Trinitron

[&]quot;Trinitron" is a registered trademark of Sony Corporation. 2) NTSCaus

The NTSC+... system refers to an NTSC color system in which the subcarrier frequency is modified to 4.43MHz. When an NTSC recorded video program is played back with a Trident (PAL/SECAM/NTSC+...) VTR, the NTSC+... signal is output.

Location and Function of Parts and Controls



Speaker

Press to select the program to be monitored. Q LINE A/LINE B (input select) buttons

Input signal Press
Signal fed through the LINE A connector LINE A
Signal fed through the LINE B connector LINE B

MENU buttons

For detailed information on MENU buttons, see "Operation Press to make the menu appear.

through On-Screen Menus" on page 10.

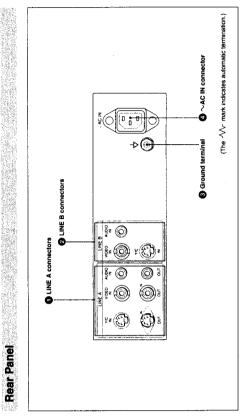
ENTER button ENTER MENU/EXIT button

② ①POWER switch and indicator

Press to turn the monitor on. The indicator lights in

To turn the power off, press this again.

Rear Panel



O LINE A connectors

Input connectors for the composite video, Y/C separate video and audio signals and their loop-through output connectors, press the LINE A button on the front To monitor the input signal fed through these connectors.

panel.

The Y/C IN connector has priority over the VIDEO IN connector.

the Y/C IN connector is automatically selected and the VIDEO IN connector is disconnected even if the cable When connecting the cable to the Y/C IN connector, is connected.

Y/C IN connector (4-pin mini-DIN)

Connect to the Y/C separate output connector of a video camera, VCR or other video equipment.

Y/C OUT connector (4-pin mini-DIN)

Connect to the Y/C separate input connector of a VCR Loop-through output of the Y/C IN connector. or another monitor.

ohm termination of the input is automatically released, When the cable is connected to this connector, the 75and the signal input to the Y/C IN connector is output from this connector.

VIDEO IN connector (BNC-type)

For a loop-through connection, connect to the video equipment, such as a VCR or a color video camera. Connect to the video output connector of video output connector of another monitor.

VIDEO OUT connector (BNC-type)

connector. Connect to the video input connector for a Loop-through output connector of the VIDEO IN VCR or another monitor.

ohm termination of the input is automatically released, When the cable is connected to this connector, the 75and the signal input to the VIDEO IN connector is output from this connector.

AUDIO IN connector (phono jack)

Connect to the audio output connector of a VCR or other equipment. For a loop-through connection, connect to the audio output of another monitor.

AUDIO OUT connector (phono jack)

Loop-through output of the AUDIO IN connector. Connect to the audio input connector of a VCR or another monitor. 7

Location and Function of Parts and Controls

O LINE B connectors

Input connectors for the composite video, Y/C separate video and audio signals.

To monitor the input signal fed through these connectors, press the LINE B button on the front

Y/C IN connector (4-pin mini-DIN)

Connect to the Y/C separate output connector of a video camera, VCR or other video equipment.

VIDEO IN connector (BNC-type)

equipment, such as a VCR or a color video camera. For a loop-through connection, connect to the video Connect to the video output connector of video output connector of another monitor.

AUDIO IN connector (phono jack)

Connect to the audio output connector of a VCR or other equipment. For a loop-through connection, connect to the audio output of another monitor.

6 Ground (♦) terminal

Connect a GND cable.

♣ ~AC IN (inlet) connector

Connect the supplied AC power cord to this connector and to a wall outlet.

Using On-Screen Menus

You can make various settings and adjustments of the monitor using the on-screen menus.

On-Screen Menu Configuration

The on-screen menu is composed of the following two menu types.

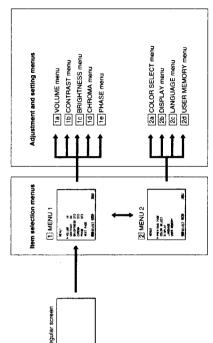
Item selection menu

sound volume, contrast, brightness, color intensity, color system and menu language by using the \P, Ψ and You can select an adjustment and setting item such as ENTER buttons.

remain unchanged until next adjustment even if you corresponding menu. The settings and adjustments Adjustment and setting menus
You can make desired adjustment or setting on turn off the power.

To reset the settings and adjustments to the factory-settings, select "FACTORY PRESET" from 2d USER MEMORY menu.

On-screen menu tree-chart



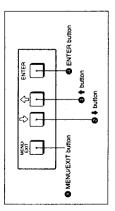
Ξ

Using On-Screen Menus

Operation through On-Screen Menus

Menu operation buttons

There are four menu operation buttons on the front panel of the monitor.

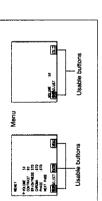


following table shows the button functions on the item Button functions depend on the displayed menu. The selection menus and adjustment and setting menus.

uonna	runction on the	Function on the
	item selection menus	adjustment and setting menus
O MENU/EXIT	To return to the	To return to the
	regular screen.	item selection
		menu.
+ 0	To move the cursor	To decrease value/
	downward.	select item.
0 +	To move the cursor	To increase value/
	upward.	select item.
© ENTER	To decide a	To decide a
	selected item.	selected item*).
The state of the s		

a) You can use the ENTER button only on the 2dlUSER MEMORY menu of the adjustment and setting menus.

Usable buttons depend on the displayed menu. Buttons that can be used on the menu are displayed at the bottom line of the screen. You can perform menu operation using displayed buttons.



Display of the usable menu operation buttons

Operating procedures

To display the menu, follow this procedure.

Press the MENU/EXIT (button. 1 MENU 1 appears. To select items other than ones not displayed on MENU 1 Select [2] MENU 2. For details of how to select, see the "To change the item selection menus" described later.

2 Move the cursor to the desired item by pressing the ↓ or ↑ (②, ⑤) button.

3 Press the ENTER (4) button.

The adjustment and setting menu selected in step 2

For detailed information of menus, see "Functions of On-Screen Menus" on page 11.

Select NEXT PAGE on the menu to display next item selection menu and PREVIOUS PAGE on the menu to To change the item selection menus display the previous item selection menu.

	. 8	Ж
MENU 2	EWIT COLD OF BLACK COLD OF BLACK COLD OF BLACK COLD OF BLACK COLD OF BLACK WEN GEOTT	■ : When selecting NEXT PAGE ■ : When selecting PREVIOUS PAGE
	† ↓	ting NE
		an selec
MENO 1	MENUI TOURE 18 CONTAGE 18 CONTAGE 17 PAGE 17 P	† ↓ ***
	1	u.

How to change the item selection menu

To return to the item selection menu from the adjustment and setting menus

Press the MENU/EXIT (1) button on the currently displayed adjustment and setting menu.

To close the menu (to return to the regular

Press the MENU/EXIT (1) button when the item selection menu is displayed. The on-screen menu disappears and the regular screen appears. screen)

Functions of On-Screen Menus

Item selection menus

1 MENU 1 MENU 1 MENU 1 menu has the following selection items.

Item	runctions
VOLUME	To obtain the desired volume
CONTRAST	To adjust the contrast
BRIGHTNESS	To adjust the brightness
CHROMA	To adjust the color intensity
PHASE	To adjust the phase

[2] MENU 2 MENU 2 menu has the following selection items.

lient l	runction
COLOR SELECT To	To select the color system of the input signal
DISPLAY	To select period of display
LANGUAGE	To select the menu language
USER MEMORY TA	To store and recall the values and settings adjusted by a user, and recall the factory-settings

Adjustment and setting menu

1a VOLUME menu (Factory setting: 50)



Adjust the speaker volume.

The volume increases by pressing the \$\P\$ button. The volume decreases by pressing 🖣 button. 1b CONTRAST menu (Factory setting: 80)



Adjust the contrast of the screen.

The contrast becomes higher by pressing the \$\textstyle \text{button}\$. The contrast becomes lower by pressing \$\text{\$\text{\$\text{\$\text{\$button}\$}}}.

1c BRIGHTNESS menu (Factory setting: STD)

The screen becomes brighter by pressing the 🅈 button. The screen becomes darker by pressing ♦ button. Adjust the brightness of the screen.

1d CHROMA menu (Factory setting: STD)



The color intensity weakens by pressing 🖶 button. The color intensity strengthens by pressing the 4 Adjust the color intensity of the video signal.

The color intensity of an composite video signal or a Y/C separate signal can be corrected on this menu.

1e PHASE menu (Factory setting: STD)



The skin tone becomes greenish by pressing the 🕈 The skin tone becomes purplish by pressing the \clubsuit Adjust the phase of the video signals. button.

The phase of an NTSC composite video signal or a Y/C separate signal can be corrected on this menu. The PAL composite video signal or a Y/C separate signal cannot be corrected.

2a COLOR SELECT menu (Factory setting: AUTO)

2d USER MEMORY menu

STORE MICALL FACTORY MESET

BESELECT OND



AUTO: Input color systems are automatically Select the color system of the input signal. selected.

activate. To monitor NTSC signal with trap filter, When you input NTSC signal, comb filter will select NTSC in this menu.

To recall all adjustments and settings currently stored in the internal memory.

RECALL

To reset the adjustments and settings currently set on each menu to the factory settings."

FACTORY PRESET

To store all adjustments and settings currently set on each menu into the internal memory.

The items have the following functions.

Function

STORE

2b DISPLAY menu (Factory setting: SHORT TIME)



Select the period of displaying the color system of the

The items have the following functions. current input signals.

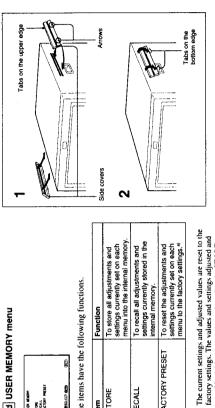
Item	Function
SHORT TIME	To display the kind of color system being used for several seconds on the screen each time you change the signal input.
LONG TIME	To display the kind of color system being used for approximately five minutes on the screen each time you change the signal input.
OFF	Not to display the kind of the color system.

2c LANGUAGE menu (Factory setting: ENGLISH)



Select the menu language among the five languages, English, German, French, Italian and Spanish.

ttaching the Side Covers



from medicines, etc., attach the supplied side covers as In order to protect the ventilation holes from splashes illustrated.

Hook the tabs on the upper edge into the ventilation holes, making sure that the arrows on the cover are facing down.

When you press the ENTER (4) button, the following

currently selected item becomes active when pressing

the ENTER (4) button.

message is displayed for about two seconds. The

menu, however, are not changed. To reset internally stored adjusted values and settings to the factory setting, select FACTORY PRESET, first, then select STORE.

stored in the internal memory by using the STORE

Attach the side covers on all ventilation holes.

2 Push up the tabs on the bottom edge and fit the Attach covers on both left and right vents. cover into the lowest ventilation holes.

·· COMPLETE ··

Using the Last Control Function

If you press the * or * button when the menu is not displayed, one of the following menu items that you adjusted last time is displayed. VOLUME

- CONTRAST BRIGHTNESS CHROMA
- PHASE

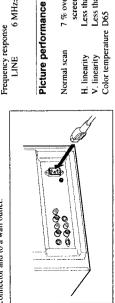
Then you can adjust the item immediately.

Specifications

How to Connect the AC Power

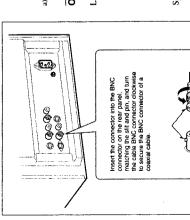
Video signal Color system

> Connect the AC power cord (supplied) to the ~AC IN connector and to a wall outlet.



How to Connect a Cable to a BNC Connector

the BNC connectors on the rear panel as illustrated



Y/C OUT 4-pin mini-DIN (x1) loop-through,

BNC connector (x1) loop-through, Automatic 75 ohms termination

VIDEO OUT

Automatic 75 ohms termination

AUDIO OUT

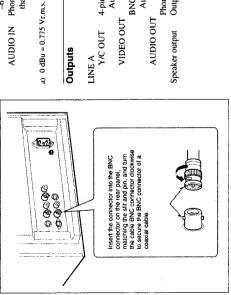
Phono jack (XI) loop-through Output level: 0.8 W

Normal scan H. linearity

7 % over scan of CRT effective

Less than 8.0 % (typical) Less than 7.0 % (typical)

Connect the coaxial cable with the BNC connectors to



General

- Type of protection against electric shock: Class I ednibment Classification of equipment

NTSC, PAL, SECAM, NTSC441

6 MHz±3dB (Y signal)

LINE

500 TV lines

Horizontal Resolution

EN 60 601-1, EN60 601-1-2 Standard evaluated to: CSA C22.2 No.601.1 UL 2601-1

- Degree of protection against harmful ingress of

- Degree of safety of application in the presence of a flammable anaesthetic mixture: water: Ordinary equipment Not protected equipment

- Mode of operation:

 Information concerning type and frequency of technical maintenance: Continuous operation

Not need maintenance equipment - Main power switch:

14-inch CRT with P-22 Functional switch phosphor

CRT

See the pin assignment on the next page. BNC connector (×2), 1Vp-p +3 dB,

VIDEO IN AUDIO IN

4-pin mini-DIN(x2)

Y/C IN

LINE A/B

Inputs

-6 dB, sync negative Phono jack (x2), -5 dBu³, more

than 47 kilo-ohms

Visible picture size 332 mm

(13-inch measured diagonally) Power consumption

80W Power requirements

100 to 240 V AC, 50/60 Hz

1.2 - 0.6 A

Temperature 0 to +40°C Operating conditions

Humidity 30 to 85% (no condensation) 700 to 1060 hPa Pressure

Temperature –10 to +40°C Humidity 0 to 90% Pressure 700 to 1060 hPa Transport and Storage conditions

346 × 340 × 414 mm Dimensions (w/h/d)

Approx. 15 kg (33 lb 1 oz) Accesory supplied Mass

 $(13\% \times 13\% \times 16\% \text{ inches})$

Instructions for Use (1) AC power cord (1) Side covers (2)

Pin assignment

Y/C IN connector (4-pin mini-DIN)



Pin No.	Signal	Description
-	Y-input	1 Vp-p, sync negative, 75 ohms
5	CHROMA subcarrier-input	0.286 Vp-p (NTSC), 300m Vp-p (PAL), burst Delay time between Y and C: within 0 ± 100 nsec., 75 ohms
6	GND for Y-input	GND
4	GND for CHROMA- GND input	GND

Design and specifications are subject to change without notice.

Troubleshooting

This section may help you isolate the problem. Should the problem persist, unplug the unit and contact your Sony dealer or local authorized Sony service facility.

Symptom	Possible causes and remedies
If colors are not accurately reproduced	The monitor input signal is deviated from the color system specifications (i.e. signals from VCRs).
	Proceed as follows to correct this phenomenon.
	1 Confirm the color system of the input signal.
	2 Select the same color system as that of the input signal on the COLOR SELECT menu.
	If the problem remains unsolved after corresponding color system is selected, briefly turn OFF the power, then turn ON the monitor again.

Trinitron_® Color Video Monitor

EN	L	Д	Е		ပ
Operating Instructions Page 2	Mode d'emploi Page 14	Bedienungsanleitung Seite 26	Manual de instrucciones Pégina 38	Istruzioni per l'uso Pegina 50	使用说明书 82 位
Operatin	Mode d'e	Bedienur	Manual d	struzion	#田沙田典

Frinitron

SSM-14N5E/14N5U/14N5A SSM-20N5E/20N5U/20N5A

© 1998 by Sony Corporation

Owner's Record

The model and serial numbers are located at the rear. Becord these numbers in the spaces provided below. Refer to these numbers whenever you call upon your Sony dealer regarding this product.

Model No. Serial No.

WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

Do not open the cabinet. Refer servicing Dangerously high voltage are present to qualified personnel only. inside the unit.

In the event of a malfunction or when maintenance is necessary, consult an authorized Sony dealer.

For the customers in the U.S.A.

interference in which case the user will be required to correct reasonable protection against harmful interference when the This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide accordance with the instruction manual, may cause harmful equipment in a residential area is likely to cause harmful equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio interference to radio communications. Operation of this frequency energy and, if not installed and used in the interference at his own expense.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

For the customers in the United Kingdom

WARNING

THIS APPARATUS MUST BE EARTHED

The wires in this mains lead are coloured in accordance with the following code:

MPORTANT

Neutral Earth Green-and-yellow:

As the colours of the wires in the mains lead of this

apparatus may not correspond with the coloured markings identifying the terminals in your plug proceed as follows: The wire which is coloured green-and-yellow must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol \pm or coloured green or green-and-yellow.

terminal which is marked with the letter N or coloured black. The wire which is coloured brown must be connected to the The wire which is coloured blue must be connected to the erminal which is marked with the letter L or coloured red.

Ensure that your equipment is connected correctly - If you are in any doubt consult a qualified electrician.

ATTENTION:

Picture distortion may occur if this monitor is positioned in close proximity to any equipment emitting electromagnetic radiation.

Precaution

On safety

Operate the unit only with a power source as

Features

The nameplate indicating operating voltage, power consumption, etc., is located on the rear. specified in "Specifications" section.

Should any solid object or liquid fall into the cabinet. personnel before operating it any further.

Do not drop or place heavy objects on the power unplug the unit and have it checked by qualified

power immediately. It is dangerous to use the unit cord. If the power cord is damaged, turn off the

Unplug the unit from the wall outlet if it is not to be with a damaged power cord.

Disconnect the power cord from the AC outlet by grasping the plug, not by pulling the cord.
The socket-outlet shall be installed near the equipment and shall be easily accessible. used for several days or more.

On installation

Allow adequate air circulation to prevent internal heat

Do not place the unit on surfaces (rugs, blankets, etc.) or near materials (curtains, draperies) that may block the ventilation holes.

such as radiators or air ducts, or in a place subject to direct sunlight, excessive dust, mechanical vibration Do not install the unit in a location near heat sources

On cleaning

To keep the unit fooking brand-new, periodically clean afety precaution, unplug the unit before cleaning it. cleansers since they will damage the cabinet. As a it with a mild detergent solution. Never use strong solvents such as thinner or benzine, or abrasive

On repacking

Do not throw away the carton and packing materials. They make an ideal container which to transport the

If you have any questions about this unit, contact your authorized Sony dealer.

Table of Contents

D.	5	9	7	7	7	80	∞	6	01	<u>~</u>	<u>e</u>
Location and Function of Parts and Controls 5	Front	Rear Panel	Connections	How to Connect the AC Power Cord 7	How to Connect a Cable to a BNC Connector 7	Using On-Screen Menus	On-Screen Menu Configuration	Operation through On-Screen Menus	Functions of On-Screen Menus	Troubleshooting12	Specifications13
Location an	Front	Rear Pan	Connection	How to C	How to C	Using On-S	On-Scree	Operation	Function	Troublesho	Specificatio

About this manual

Before operating the unit, please read this manual thoroughly and retain it for future reference.

When explanation differs among models, this is clearly The explanation given in this manual can be applied to the following models unless noted otherwise. indicated in this manual.

 SSM-14N5E/14N5U/14N5A (14-inch monitor) SSM-20N5E/20N5U/20N5A (20-inch monitor) Illustrations of the video monitor are for the SSM-20N5E/20N5U/20N5A.

1-19

Picture

Fine pitch Trinitron¹ picture tube

The fine pitch Trinitron tube provides a high resolution picture. Horizontal resolution is more than 500 TV lines at the center of the picture.

When NTSC video signals are received, a comb filter activates to make more accurate Y/C separation. This contributes to less of a decrease in resolution, cross color and cross luminance phenomena.

Beam current feedback circuit

The built-in beam current feedback circuit assures stable white balance.

Four color system available

The monitor can display NTSC, PAL, SECAM, and NTSC4.433 signals. The appropriate color system is selected automatically.

Y/C input connector

and the luminance signal (Y), can be input through this two signals, which tends to occur in a composite video The video signal, split into the chrominance signal (C) connector, eliminating the interference between the signal, ensuring video quality.

Automatic termination

(connector with √√ mark only)

when no cable is connected to the loop-through output The input connector is terminated at 75 ohms inside connector, the 75-ohm termination is automatically connector. When a cable is connected to an output

Functions

Front

Location and Function of Parts and Controls

On-screen menus

You can set monitor operation settings by using the on-screen menus.

By using an MB-502B mounting bracket (for a 14-inch monitor, not supplied) or SLR-103A slide rail (for a 20-inch monitor, not supplied), the monitor can be EIA standard 19-inch rack mounting mounted in an EIA standard 19-inch rack.

Attention - when the product is installed in a rack:

Speaker

assembly, the operating ambient temperature of the rack environment may be greater than room · Elevated operating ambient temperature If installed in a closed or multi-unit rack

rated ambient temperature of 0 to +35 °C (Tmra). compatible with the manufacturer's maximum Therefore, consideration should be given to installing the equipment in an environment

· Reduced air flow

such that the amount of air flow required for safe Installation of the equipment in a rack should be operation of the equipment is not compromised.

Mounting of the equipment in the rack should be Consideration should be given to the connection such that a hazardous condition is not achieved due to uneven mechanical loading. Mechanical loading · Circuit overloading

effect that overloading of circuits might have on

of the equipment to the supply circuit and the

Speaker

should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuit (e.g., use of Reliable earthing of rack-mounted equipment overcurrent protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when · Reliable earthing power strips).

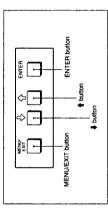
MENU buttons

Press to turn the monitor on. The indicator lights in To turn the power off, press this again.

For detailed information on MENU buttons, see "Operation

Press to make the menu appear. MENU buttons

through On-Screen Menus" on page 9.



1) Trinitron

"Trinitron" is a registered trademark of Sony Corporation.

2) NTSCass

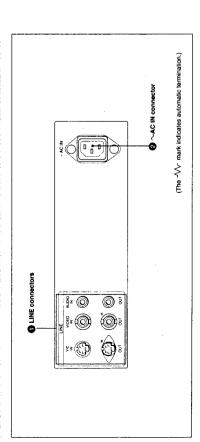
The NTSC4.1 system refers to an NTSC color system in which the subcarrier frequency is modified to 4.43 MHz. When an NTSC recorded video program is played back with a Tridem (PAL/SECAM/NTSC4.1) VTR, the NTSC4.1 signal is output.

S

SIIA Cassis

Location and Function of Parts and Controls

Rear Panel



O LINE connectors

Input connectors for the composite video, Y/C separate video and audio signals and their loop-through output connectors.

The Y/C IN connector has priority over the VIDEO IN connector.

the Y/C IN connector is automatically selected and the VIDEO IN connector is disconnected even if the cable When connecting the cable to the Y/C IN connector, is connected.

Y/C IN connector (4-pin mini-DIN)

Connect to the Y/C separate output connector of a video camera, VCR or other video equipment.

Connect to the Y/C separate input connector of a VCR Loop-through output of the Y/C IN connector.

ohm termination of the input is automatically released, and the signal input to the Y/C IN connector is output When the cable is connected to this connector, the 75-

VIDEO IN connector (BNC-type)

For a loop-through connection, connect to the video equipment, such as a VCR or a color video camera. Connect to the video output connector of video output connector of another monitor.

VIDEO OUT connector (BNC-type)

Connect to the video input connector for a VCR or Loop-through output of the VIDEO IN connector. another monitor.

ohm termination of the input is automatically released, When the cable is connected to this connector, the 75and the signal input to the VIDEO IN connector is output from this connector.

AUDIO IN connector (phono jack)

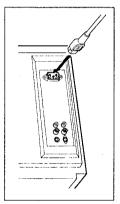
Connect to the audio output connector of a VCR or other equipment. For a loop-through connection, connect to the audio output of another monitor.

AUDIO OUT connector (phono Jack) Loop-through output of the AUDIO IN connector. Connect to the audio input connector of a VCR or

Connections

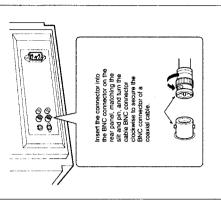
How to Connect the AC Power Cord

Connect the AC power cord (supplied) to the ~AC IN connector and to a wall outlet.



How to Connect a Cable to a BNC Connector

Connect the coaxial cable with the BNC connectors to the BNC connectors on the rear panel as illustrated below.



Y/C OUT connector (4-pin mini-DIN)

from this connector.

Connect the supplied AC power cord to this connector and to a wall outlet. /

You can make various settings and adjustments of the monitor using the on-screen menus.

On-Screen Menu Configuration

The on-screen menu is composed of the following two menu types.

tem selection menu

You can select an adjustment and setting item such as sound volume, contrast, brightness, color intensity, color system and menu language by using the **#**.**#** and ENTER buttons.

Adjustment and setting menus

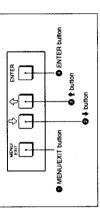
You can make desired adjustment or setting on corresponding menu. The settings and adjustments remain unchanged until next adjustment even if you turn off the power.

To reset the settings and adjustments to the factory-settings, select "FACTORY PRESET" from adjuSER MEMORY menu.

Operation through On-Screen Menus

Menu operation buttons

There are four menu operation buttons on the front panel of the monitor.



Button functions depend on the displayed menu. The following table shows the button functions on the item selection menus and adjustment and setting menus.

Adjustment and setting menus

Item selection menus

1 MENU 1

Regular screen

On-screen menu tree-chart

► 1b CONTRAST menu ► 1c BRIGHTNESS menu ► 1d CHROMA menu

CONTACT OF CONTACT OF

1e PHASE menu

1a VOLUME menu

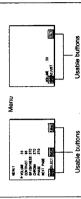
	item selection menus	adjustment and setting menus
• MENU/EXIT	To return to the regular screen.	To return to the item selection menu.
+ @	To move the cursor downward.	To decrease value/ select item.
+ 0	To move the cursor upward.	To increase value/ select item.
© ENTER	To decide a selected item.	To decide a selected item*.

20 DISPLAY menu
20 DISPLAY menu
20 LANGUAGE menu
20 LANGUAGE menu
20 LSER MEMORY menu

2 MENU 2

PREVIOUS PARE CONCOR SELECT CARGONICE LABORICE LABORICE a) You can use the ENTER button only on the 2d USER MEMORY menu of the adjustment and setting menus.

Usable buttons depend on the displayed menu. Buttons that can be used on the menu are displayed at the bottom line of the screen. You can perform menu operation using displayed buttons.



Operating procedures

To display the menu, follow this procedure.

Press the MENU/EXIT (**①**) button.

[1] MENU I appears.

To select items other than ones not displayed on MENU 1
Select [2] MENU 2.

For details of how to select, see the "To change the item selection menus" described later.

2 Move the cursor to the desired item by pressing the ψ or \uparrow (2), 3) button.

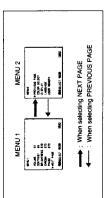
3 Press the ENTER (©) button.

The adjustment and setting menu selected in step 2 annears.

For detailed information of menus, see "Functions of On-Screen Menus" on page 10. 6

æ

Select NEXT PAGE on the menu to display next item selection menu and PREVIOUS PAGE on the menu to To change the Item selection menus display the previous item selection menu.



How to change the item selection menu

To return to the item selection menu from the adjustment and setting menus Press the MENU/EXIT () button on the currently

displayed adjustment and setting menu.

To close the menu (to return to the regular

Press the MENU/EXIT (4) button when the item selection menu is displayed. The on-screen menu disappears and the regular screen appears.

Using the Last Control Function

If you press the \P or \P button when the menu is not displayed, one of the following menu items that you adjusted last time is displayed.

- CONTRAST VOLUME

 - BRIGHTNESS
 - CHROMA

Then you can adjust the item immediately.

Functions of On-Screen Menus

tem selection menus

1 MENU 1
MENU 1 menu has the following selection items.

tem.	Functions
VOLUME	To obtain the desired volume
CONTRAST	To adjust the contrast
BRIGHTNESS	To adjust the brightness
CHROMA	To adjust the color intensity
PHASE	To adjust the phase

[2] MENU 2 MENU 2 menu has the following selection items.

Item	Function
COLOR SELECT	To select the color system of the input signal
DISPLAY	To select period of display
LANGUAGE	To select the menu language
USER MEMORY	To store and recall the values and settings adjusted by a user, and recall
	the factory-settings

Adjustment and setting menu

1a VOLUME menu (Factory setting: 50)

The color intensity weakens by pressing 🖶 button.

1e PHASE menu (Factory setting: STD)

The color intensity strengthens by pressing the 🕈

Adjust the color intensity of the video signal.

CHICAN STD



Adjust the speaker volume.

The volume increases by pressing the ♠ button. The volume decreases by pressing ♦ button.

2a COLOR SELECT menu (Factory setting: AUTO) 1b CONTRAST menu (Factory setting: 80)

selected. When you input NTSC signal, comb filter AUTO: Input color systems are automatically Select the color system of the input signal.

will activate. To monitor NTSC signal with trap

1c BRIGHTNESS menu (Factory setting: STD)

The contrast becomes higher by pressing the 🕈 button.

Adjust the contrast of the screen.

CONTRAST - BB

The contrast becomes lower by pressing \$\infty\$ button.

The factory setting of the COLOR SELECT menu filter, select NTSC in this menu. depends on destination.

(Factory setting: SHORT TIME) 2b DISPLAY menu

The screen becomes brighter by pressing the 4 button.

Adjust the brightness of the screen.

BRICHTHESS STD REBUGJUST

The screen becomes darker by pressing 4 button.

1d CHROMA menu (Factory setting: STD)

SSM-14N5E/20N5E/14N5A/20N5A: PAL

SSM-14N5U/20N5U: NTSC



Select the period of displaying the color system of the

	ons.	
	ng functi	
· cit	e followi	
input again	have the	
	The items l	

ttem	Function
SHORT TIME	To display the kind of color system being used for several seconds on the
	screen each time you change the signal input.
LONG TIME	To display the kind of color system
	being used for approximately five
	minutes on the screen each time you
	change the signal input.
OFF	Not to display the kind of the color
	system.

(Factory setting: ENGLISH) 2c LANGUAGE menu



The skin tone becomes purplish by pressing the \ipsi

The skin tone becomes greenish by pressing the 🕈

button. button.

Adjust the phase of the video signals.

PAKE STD BERLOWET

Select the menu language among the five languages, English, German, French, Italian and Spanish.

Y/C separate signal can be corrected on this menu. The PAL composite video signal or a Y/C separate signal

cannot be corrected.

The phase of an NTSC composite video signal or a

10

2d USER MEMORY menu

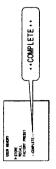
_		
USER MEMORY	PSTONE MEDALL FACTORY PRESET	

The items have the following functions.

Item	Function
STORE	To store all adjustments and settings currently set on each menu into the internal memory.
RECALL	To recall all adjustments and settings currently stored in the internal memory.
FACTORY PRESET	To reset the adjustments and settings currently set on each menu to the factory settings."

stored adjusted values and settings to the factory setting, select FACTORY PRESET, first, then select STORE. The color system of the input signal is reset to AUTO even though the factory setting on the COLOR SELECT menu is NTSC or PAL. a) The current settings and adjusted values are reset to the factory settings. The values and settings adjusted and menu, however, are not changed. To reset internally stored in the internal memory by using the STORE

When you press the ENTER (4) button, the following currently selected item becomes active when pressing message is displayed for about two seconds. The the ENTER (4) button.



This section may help you isolate the problem. Should the problem persist, unplug the unit and contact your Sony dealer or local authorized Sony service facility.

Symptom	Possible causes and
	remedies
If the picture is unstable,	Select NTSC on the COLOR
when the input signal from	SELECT menu when the
a security camera is	NTSC signal is input.
switched	Select PAL when the PAL
	signal is input.

Power requirements

NTSC, PAL, SECAM, NTSC.41

Video signal Color system

500 TV lines

Frequency response

Resolution

6 MHz±3dB (Y signal)

operate these monitors on 120 VAC. "For use of SSM-14N5U/20N5U". 100 to 240 V AC, 50/60Hz

Operating conditions

0 to 90% (no condensation) Transport and Storage conditions Temperature 0 to +35°C Humidity

Temperature --10 to +40°C Humidity 0 to 90%

7 % over scan of CRT effective

Normal scan

Picture performance

Less than 8.0 % (typical) Less than 7.0 % (typical)

H. linearity

V. linearity

Color temperature D65

screen area

Dimensions (w/h/d)

SSM-14N5E/14N5U/14N5A: $(13\% \times 13\% \times 16\% \text{ inches})$ $346 \times 340 \times 414 \text{ mm}$

Approx. 28 kg (61 lb 12 oz) SSM-20N5E/20N5U/20N5A: SSM-14N5E/14N5U/14N5A: SSM-20N5E/20N5U/20N5A: $(17\% \times 17\% \times 19\% \text{ inches})$ Approx. 15 kg (33 lb 1 oz) 449 × 441 × 502 mm Mass

Operating Instructions (1) Accesory supplied AC power cord (1) 5

VIDEO IN BNC connector (x1), 1Vp-p +3 dB,

-6 dB, sync negative AUDIO IN Phono jack (x1), -5 dBu², more

than 47 kilo-ohms

a) 0 dBu = 0.775 Vr.m.s.

Outputs

See the pin assignment on this page.

4-pin mini-DIN(x1)

Y/C IN

LINE

Inputs

Pin assignment

Y/C IN connector (4-pin mini-DIN)



4-pin mini-DIN (x1) loop-through,

BNC connector (x1) loop-through, Automatic 75 ohms termination

VIDEO OUT Y/C OUT

Automatic 75 ohms termination

Phono jack (x1) loop-through

AUDIO OUT

Output level: 0.8 W

Speaker output

Pin No.	Signal	Description
-	Y-input	1 Vp-p, sync negative, 75 ohms
5	CHROMA subcarrier-input	0.286 Vp-p (NTSC), 300m Vp-p (PAL), burst Delay time between Y and C: within 0 ± 100 nsec., 75 ohms
8	GND for Y-input	GND
4	GND for CHROMA- GND input	GND

Design and specifications are subject to change without notice.

General CRT

14-inch CRT with P-22 phosphor 20-inch CRT with P-22 phosphor (13-inch measured diagonally) visible picture size 340 mm SSM-20N5E/20N5U/20N5A: visible picture size 490 mm SSM-14N5E/14N5U/14N5A:

SSM-14N5E/14N5U/14N5A: 80W Power consumption

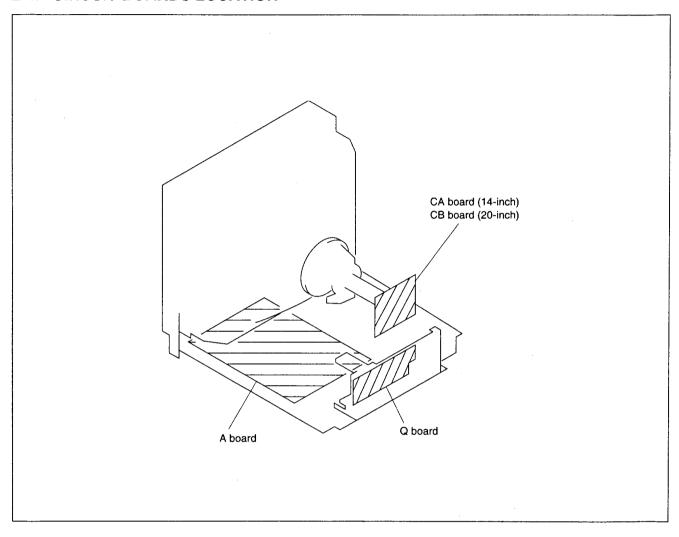
(19-inch measured diagonally)

SSM-20N5E/20N5A: 105W SSM-20N5U: 100 W

감

SECTION 2 SERVICE INFORMATION

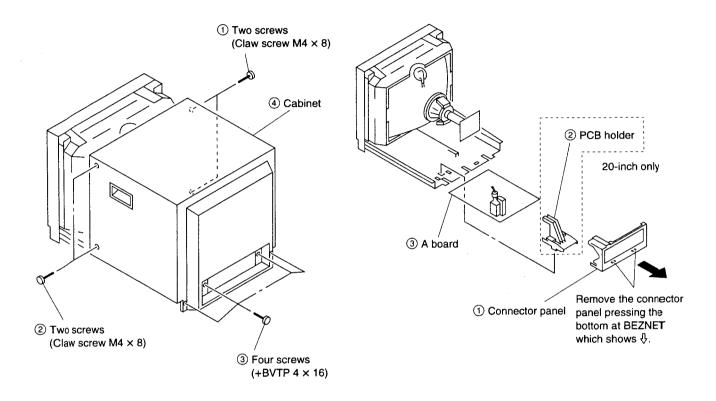
2-1. CIRCUIT BOARDS LOCATION



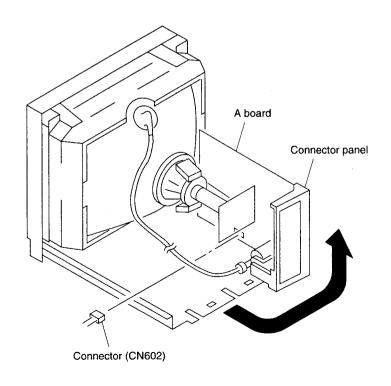
2-2. DISASSEMBLY

2-2-1. Cabinet Removal

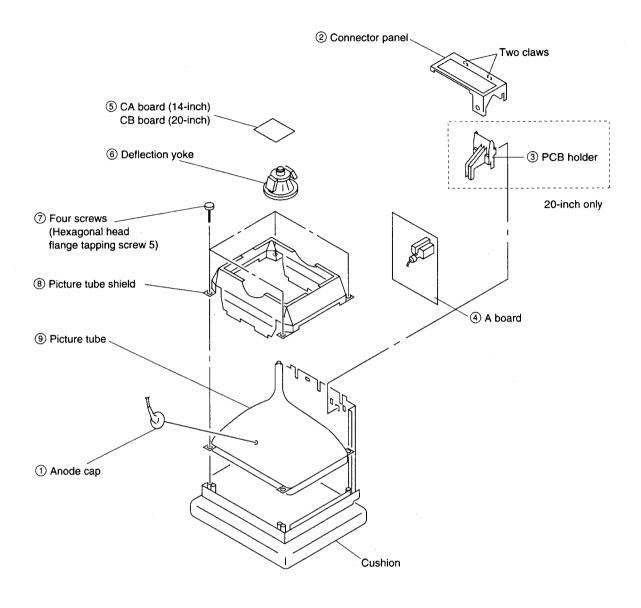
2-2-2. A Board Removal



2-2-3. Service Position



2-2-4. Picture Tube Removal

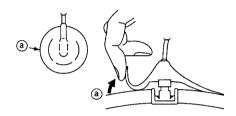


2-2-5. Removal of Anode-cap

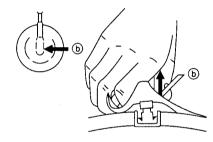
Note: Short circuit the anode of the picture tube and the anode cap to the metal chassis, picture tube shield or carbon painted on the picture tube, after removing the anode.

1. Removing Procedures

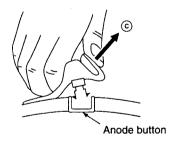
(1) Turn up one side of the rubber cap in the direction indicated by the arrow (a).



(2) Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow **(b)**.

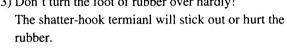


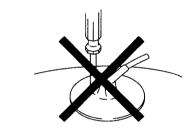
(3) When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ©.

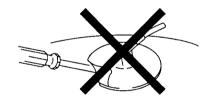


2. Handling Precautions

- (1) Don't hurt the surface of anode-caps with sharp shaped material!
- (2) Don't press the rubber hardly not to hurt inside of anode-caps!A material fitting called as shatter-hook terminal is
- built in the rubber.
 (3) Don't turn the foot of rubber over hardly!







SECTION 3 SET-UP ADJUSTMENTS

3-1. PREPARATIONS (1)

Tools required

- · Oscilloscope
- · Digital multimeter
- Degausser
- · Video signal generator
- · Variable AC power supply (or NF power supply)
- · DC power supply
- Ammeter

Note: Perform the following adjustments 5 minutes after turning on the power.

Service Mode

This unit is provided with a service switch on the front panel for various servicing adjustments. The following describes how to use the switch.

1. Setting the Service Mode

With no menus displayed, press the **ENTER** and **MENU** keys simultaneously. When Ver*** is displayed on the screen, press the **ENTER** key twice.

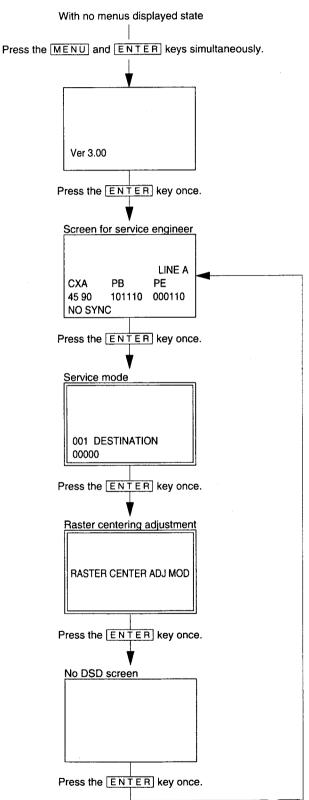
2. Displaying the Service Mode

(4)	
(1)	(2)
(3)	

Range of Service Mode Displays

- (1) Serial number from "0 to 102" given to each service item.
- (2) Name of service item.
- (3) Adjustment data of the service item memorized in the RAM currently. Changing this value enables adjustments. Take note that if the adjustment values are not saved in the EPROM, they will be lost when the power is turned off or when the input is switched.
- (4) Guidance on saving.

Service Mode Screens



Note: Use the double solid lined screens () when servicing.

3. Exiting the Service Mode

To exit the service mode, switch to the raster center adjustment mode, and press the **ENTER** and **MENU** keys simultaneously.

4. Moving to the Desired Service Item

To go back to a previous service item, use the $\boxed{\text{MENU}}$ + $\boxed{\uparrow}$ keys. To forward to a service item in front, use the $\boxed{\text{MENU}}$ + $\boxed{\downarrow}$ keys. Pressing these keys continuously will move the cursor continuously.

5. Changing the Service Data

The adjustment data increases when the \(\bar\) key is pressed and decreases when the \(\bar\) key is pressed. Pressing these keys continuously will increase or decrease the value continuously.

6. Writing the Service Data

To write the data from the RAM to the EEPROM, press the MENU and ENTER keys once, check that SAVE is displayed at Guidance, and then press the MENU and ENTER keys again. Take note that when SAVE is displayed at Guidance, the items displayed as well as all data will be written.

7. Setting the Raster Centering Adjustment Mode

Press the **ENTER** key another time in the service mode.

Service Items of EEPROM Data

	Default Data	
No. String -	14-inch 20-inch	
1 DESTINATION	U/C: 1 AEP: 2 AUS: 3	U/C: 1 AEP: 2 AUS: 3
2 SHARP LEVEL	4	4
3 SHARP F0	1	1
4 PRE/OVER SHOOT	0	0
5 Y DLY NTSC COMB	4	4
6 Y DLY NTSC CVBS	4	4
7 Y DLY NTSC Y/C	4	4
8 Y DLY NT443 CVBS	4	4
9 Y DLY NT443 Y/C	4	4
10 Y DLY PAL CVBS	4	4
11 Y DLY PAL Y/C	4	4
12 Y DLY SECAM CVBS	4	4
13 Y DLY SECAM Y/C	4	4
14 Y DLY PAL-M CVBS	4	4
15 Y DLY PAL-M Y/C	4	4
16 CHROMA CENT	31	31
17 PH CENT NTSC COMB	33	33
18 PH CENT NTSC CVBS	31	31
19 PH CENT NTSC Y/C	31	31
20 PH CENT NT443CVBS	33	33
21 PH CENT NT443 Y/C	35	35
22 C BPF NTSC COMB	1	1
23 C BPF NTSC CVBS	1	1
24 C BPF NTSC Y/C	0	0
25 C BPF NT443 CVBS	1	1
26 C BPF NT443 Y/C	0	0
27 C BPF PAL CVBS	1	1
28 C BPF PAL Y/C	0	0
29 C BPF SECAM CVBS	1	1
30 C BPF SECAM Y/C	. 0	0
31 C BPF PAL-M CVBS	1	1
32 C BPF PAL-M Y/C	0	0
33 SUB BRT CVBS	33	33
34 SUB BRT RGB	33	33
35 SECAM ID START	1	1
36 SECAM ID STOP	2	2
37 *SECAM BELL F0	33	33
38 SECAM ID LEVEL	3	3
39 C/O R ROUGH	3	3
40 C/O G ROUGH	3	3

		Default Data	
No.	String —	14-inch	20-inch
41	C/O B ROUGH	3	3
42	*C/O OFFSET CVBS	28	49
43	*C/O R FINE CVBS	26	21
44	*C/O G FINE CVBS	31	31
45	*C/O B FINE CVBS	31	29
46	*DRV ALL CVBS	No. 47, 48 an	d 49 are displayed.
47	*DRV R CVBS	42	31
48	*DRV G CVBS	36	23
49	*DRV B CVBS	19	11
50	*C/O OFFSET SECAM	29	50
51	*C/O R FINE SECAM	11	11
52	*C/O G FINE SECAM	31	31
53	*C/O B FINE SECAM	24	23
54	*DRV ALL SECAM	No. 55, 56 an	d 57 are displayed.
55	*DRV R SECAM	41	31
56	*DRV G SECAM	36	23
57	*DRV B SECAM	19	11
58	*C/O OFFSET RGB	40	49
59	*C/O R FINE RGB	30	29
60	*C/O G FINE RGB	31	31
61	*C/O B FINE RGB	33	32
62	*DRV ALL RGB	No. 63, 64 an	d 65 are displayed.
63	*DRV R RGB	44	39
 64	*DRV G RGB	38	33
65	*DRV B RGB	19	15
66	H OSC F0	7	7
67	H MASK	1	1
68	H SYNC SEP	0	0
69	V SYNC SEP	0	0
70	V COUNTDOWN MODE	1	1
71	*H CENT 60HZ CVBS	11	14
72	*H CENT 60HZ RGB	10	12
73	*H CENT 50HZ CVBS	18	21
74	*H CENT 50HZ RGB	13	15
75	*H CENT NTSC COMB	12	14
76	H BLK RGB	0	0
77	H BLK CVBS	1	1
78	H BLK L 60 CVBS	15	15
79	H BLK R 60 CVBS	0	0
	H BLK L 60 RGB	15	15

	Default Data	
No. String	14-inch	20-inch
81 H BLK R 60 RGB	0	0
82 H BLK L 50 CVBS	15	15
83 H BLK R 50 CVBS	0	0
84 H BLK L 50 RGB	15	15
85 H BLK R 50 RGB	0	0
86 *BOW	7	7
87 *ANGLE	7	7
88 *V CENTER	32	31
89 *V SIZE	22	23
90 *V SIZE 16:9	63	63
91 *VS-CORRECTION	3	5
92 *V LINEARITY	7	6
93 V LIN UPPER	0	0
94 V LIN LOWER	0	0
95 *H SIZE	21	18
96 *H PIN PHASE	5	6
97 *H PIN AMP	27	23
98 *H CORNER PIN	31	34
99 EHT	8	8
100 SEC F0 TIME	0	0
101 SEC F0 DELTA	0	0
102 SEC F0 DELAY	0	0

- The data of signals marked "*" can be changed freely.
- The data of signals without "*" marked is fixed.

3-2. PREPARATIONS (2)

 Set the video signal generator as follows, and input the composite video signal.

Signal		Signal Contents	Standard Level P-W
COMPOSITE VIDEO	NTSC 3.58 NTSC 4.43	100 % WHITE	0.714 V
		75 % WHITE	0.536 V
		BURST (GREEN)	286 mV p-p (632 mV p-p)
	PAL SECAM	100 % WHITE	0.7 V
		75 % WHITE	0.525 V
		PAL BURST (GREEN)	300 mV p-p (664 mV p-p)

- shows the name of the adjustment items of the service mode.
 Example H SIZE
- If adjustments are performed in the service mode, save the service data before turning off the power. Turning off the power before saving the data will cause all adjusted data to be lost.
- Standard inspection state
 Unless specified otherwise, set the video signal generator to the following conditions and perform the adjustments and inspections.

ma mopeonene.	
VOLUME	50
CONTRAST	80
BRIGHTNESS	STD
CHROMA	STD
PHASE	STD
ASPECT RATIO	4:3

3-3. OUTPUTTING IMAGES

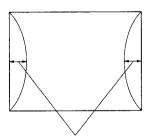
Setting the AC Input Voltage

- (1) Input the video signals and audio signals into each terminal of the connector panel.
- (2) Set the voltage of the variable AC power supply to $AC100 \pm 3 \text{ V}$ (distortion factor: 3 % or less).

3-4. RASTER CENTERING ADJUSTMENT

- (1) Set the raster center adjustment mode.

 Set the service mode according to "Setting the Service Mode", and press the ENTER key once to enter the raster center adjustment mode.
- (2) Adjust S501 on the A board so that the raster comes to the horizontal direction center.



Adjust S501 so that the raster comes to the horizontal center.

3-5. LANDING ADJUSTMENT

1. Preparations

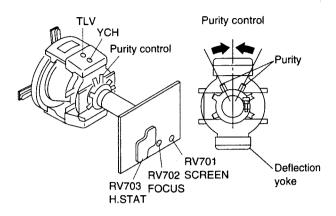
- (1) To reduce geomagnetism effects, face the CRT screen of this to the east or west.
- (2) Loosen the fixture of the deflection yoke, and push back the deflection yoke.
- (3) Turn on the power switch, and degauss with the degausser.
- (4) Adjust the tilt of the deflection yoke.

2. Adjustment

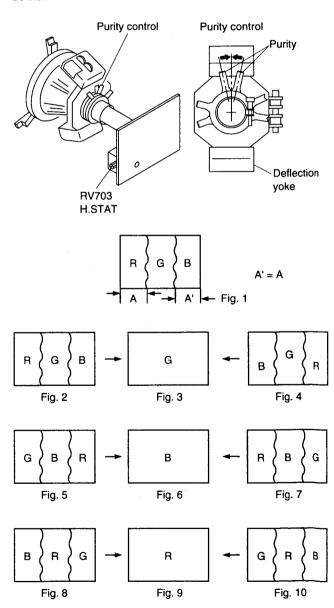
Note: The white balance, G2, and convergence need to be roughly adjusted beforehand.

- Set CONTRAST to MAX.
 Set BRIGHTNESS to a position which gives a clear view.
- (2) Set the video signal generator to G (green) only.
- (3) Adjust the purity knob so that G (green) comes to the center of the screen and the R and B widths become more or less the same. (Refer to Fig. 1.)
- (4) Switch the video signal generator to B (blue) only, R (red) only, and G (green) only, check that each color is at the center of the screen. (Refer to Fig. 3, 6, and 9)
- (5) Bring the deflection yoke forward gradually and adjust it so that the R and B at the both sides of the screen becomes green. (Refer to Fig. 2 and Fig. 3.)
- (6) Moving the deflection yoke forward too much will result in the pattern shown in Fig. 4. In such cases, push back the deflection yoke. (Refer to Fig. 4 and Fig. 3.)
- (7) Switch the video signal generator to B (blue) only, and check the pattern. (Refer to Fig. 6.)
- (8) Switch the video signal generator to R (red) only, and check the pattern. (Refer to Fig. 9.)
- (9) If the landing cannot be obtained in the corners, paste the magnet and perform adjustment.
- (10)Switch to the all white signal and check the uniformity.
- (11)After setting the position of the deflection yoke, secure it with fixture.

14-inch



20-inch



3-6. CONVERGENCE ADJUSTMENT

Input the dot pattern signal.
 Set CONTRAST to the position at which it can be seen clearly.

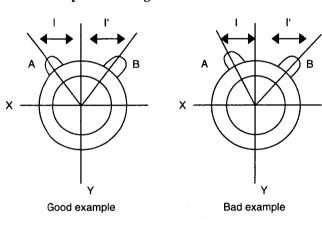
Set BRIGHTNESS to MIN.

2. Align the R, G, B dots in the horizontal direction at the center of the screen using RV703 (H-STAT).

Note: If H-CENT was changed after adjusting H-STAT, adjust H-STAT again. (The H-STAT can be changed by the H-CENT switch.)

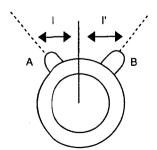
3. Align the top and bottom of R, G, B at the center of the screen using the V-STAT (vertical static convergence) magnets.

Note: After the V-STAT adjustment, always paint the magnets to lock.

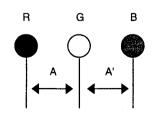


While maintaining the V-STAT magnet knobs A and B at the same angle (I = I'), adjust the top and bottom convergences. If A and B are asymmetrical (I = I'), it will have a negative effect; the focus may not be accurate, or the beam striking may occur.

4. For HMC, use a 6-pole magnet and adjust so that the R and B dots are symmetrical at the left and right sides in respect to the G dot.

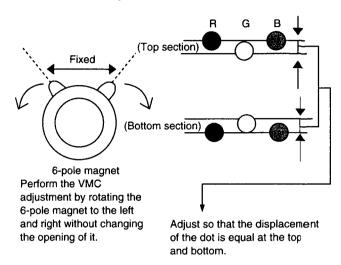


6-pole magnet
Perform the HMC adjustment
by changing the opening of
the 6-pole magnet.



Adjust the 6-pole magnet so that A = A'. While maintaining the I and I' angles equal, adjust the 6-pole magnet.

5. For VMC, use a 6-pole magnet to adjust so that the R and B dots are symmetrical above and below the G dot.

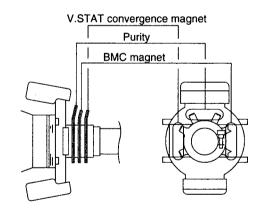


6. Repeat steps 2 to 5 until the convergence becomes correct.

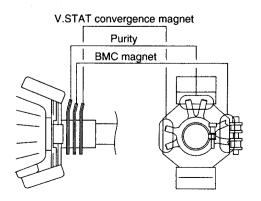
Note: Adjusting the convergence may affect the landing. Therefore be sure to check the landing again after completing this adjustment.

7. After adjusting, paint each magnet to lock them.

14-inch



20-inch



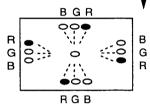
3-7. INCLINATION OF DEFLECTION YOKE ADJUSTMENT

If there is misconvergence at both sides of the X or Y axis of the CRT screen, incline the deflection yoke in the arrow direction to reduce the misconvergence for the entire CRT screen to satisfy the tolerance specified.

1. Adjustment

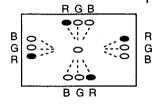
· If misconverged in the opposite direction

Move the deflection yoke downward.



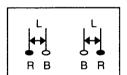
· If misconverged in the normal direction

Move the deflection yoke downward.



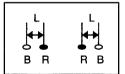
· If inclined to the left

Move the deflection yoke to the right as viewed from the CRT screen.



· If inclined to the right

Move the deflection yoke to the left as viewed from the CRT screen.



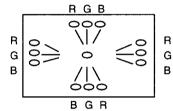
2. Insert the wedges into the DY and CRT funnel face to fix the deflection yoke. The number and position of the wedges are shown in the figure below.





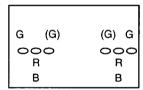
Position of the 14-inch wedge Position of the 20-inch wedge

3. The pattern below cannot be corrected by adjusting the inclination of the deflection yoke.



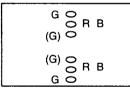
Gun rotation

- Beam is twisted at both
- sides of the X and Y axes respectively.



HCR large (small)

The G raster vertical component is wider (or narrower) at both sides of the screen than those of the R and B rasters.



VCR large (small)

The G raster vertical component is wider (or narrower) at both sides of the screen than those of the R and B rasters.

3-8. G2 ADJUSTMENT

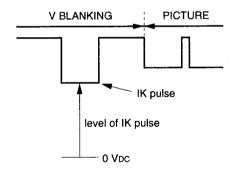
- 1. Receive the 525 or 625 monoscope signal.
- 2. Set as follows in the service mode.

No.	Item	Data				
		PVM-14N5U/14N6U 14N5E/14N6E 14N5A/14N6A 14N5MDE SSM-14N5U 14N5A 14N5E	PVM-20N5U/20N6U 20N5E/20N6E 20N5A/20N6A SSM-20N5U 20N5E 20N5A			
33	SUB BRT CVBS	3	;1			
40	C/O G ROUGH	3	7			
42	C/O OFFSET CVBS	3	11			
44	C/O G FINE CVBS	3	31			

Data Setting by Service Mode

- 3. Connect the probe of the oscilloscope to the Q714 collector.
- 4. Adjust the Q714 collector IK pulse level to the following voltage using RV701 (G2).

20-inch (RV701/CB board): G cathode = $149 \pm 1 \text{ V}$ 14-inch (RV701/CA board): G cathode = $136 \pm 1 \text{ V}$



3-9. WHITE BALANCE ADJUSTMENTS

3-9-1. VIDEO (Except SECAM) Adjustment

 Select the LINE A input.
 Set the monitor to the levels in the following table in the service mode.

No.	Item	Data				
		PVM-14N5U/14N6U 14N5E/14N6E 14N5A/14N6A 14N5MDE SSM-14N5U 14N5A 14N5A	PVM-20N5U/20N6U 20N5E/20N6E 20N5A/20N6A SSM-20N5U 20N5E 20N5A			
33	SUB BRT CVBS	3	1			
34	SUB BRT RGB	3	1			
39	C/O R ROUGH	3	7			
40	C/O G ROUGH	3	7			
41	C/O B ROUGH	3	7			
45	C/O B FINE CVBS	3	1			
52	C/O G FINE RGB	3	1			

Data Setting by Service Mode

- 2. Input the all gray signal (Fig. 1) into LINE A.
- 3. Adjust the luminance to 3 ±0.2 nit using 42 C/O OFFSET CVBS.
- 4. Adjust the white balance to the color temperature shown in Table 1 using 43 C/O R FINE CVBS and 45 C/O B FINE CVBS.
- 5. Repeat steps 3 and 4 so that the luminance and white balance become the specifications shown in Table 1.
- 6. Input the window signal (Fig. 2) into LINE A.
- 7. Adjust the luminance to 150 ±1 nit using 46 DRV ALL CVBS.
- 8. Adjust the white balance to the color temperature shown in Table 1 using 47 DRV R CVBS and 49 DRV B CVBS.
- 9. Repeat steps 7 and 8 so that the luminance and while balance become the specifications shown in Table 1.
- 10. The cutoff varies by changing the drives. Therefore, repeat steps 3 to 9 until the luminance and color temperature of the arive and cutoff meet the specification.
- 11. Repeat steps 2 and 10 so that the luminance and white balance of the cutoff side (Fig. 1) and drive side (Fig. 2) become the specifications shown in Table 1.
- 12. Save the data.

- 11. Copy the data of the items adjusted in steps 1 to 10 to the service items for adjusting the SECAM white balance.
 - 42 C/O OFFSET CVBS Copied to \rightarrow 50 C/O OFFSET SECAM 43 C/O R FINE CVBS - Copied to \rightarrow 51 C/O R FINE SECAM 44 C/O G FINE CVBS - Copied to \rightarrow 52 C/O G FINE SECAM 45 C/O B FINE CVBS - Copied to \rightarrow 53 C/O B FINE SECAM 47 DRV R CVBS - Copied to \rightarrow 55 DRV R SECAM 48 DRV G CVBS - Copied to \rightarrow 56 DRV G SECAM

- Copied to → 57 | DRV B SECAM

12. Save the adjustment data.

49 DRV B CVBS

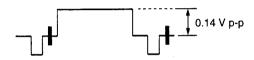


Fig. 1. NTSC All Gray Signal (With Burst)

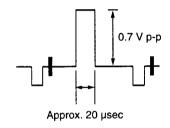


Fig. 2. NTSC Window Signal (With Burst)

Color Temperature	Adjustment Error							
D65 (x = 0.313, y = 0.329)	±1 JND							
Table 1. Color Temperature								

Note: If there is no NTSC Window signal (with burst), use Step signal.

3-9-2. Analog RGB Adjustment (PVM-14N6A, PVM-14N6E, PVM-14N6U, PVM-20N6E, PVM-20N6U)

- 1. Select RGB signal.
- 2. Input the all gray signal (Fig. 3) into the RGB input.
- 3. Adjust the luminance to 3 ±0.2 nit using 58 C/O OFFSET RGB.
- 4. Adjust the white balance to the color temperature shown in Table 1 using 59 C/O R FINE RGB and 61 C/O B FINE RGB.
- 5. Repeat steps 3 and 4 so that the luminance and white balance become the specifications shown in Table 1.
- 6. Input the window signal (Fig. 4) into the RGB input.
- 7. Adjust the luminance to 150 ±1 nit using 62 DRV ALL RGB.
- 8. Adjust the white balance to the color temperature shown in Table 1 using 63 DRV R RGB and 65 DRV B RGB.
- 9. Repeat steps 7 and 8 so that the luminance and white balance become the specifications shown in Table 1.
- 10. The cutoff varies by changing the drives. Therefore, repeat steps 3 to 9 until the luminance and color temperature of the arive and cutoff meet the specification.
- 11. Repeat steps 2 to 10 so that the luminance and white balance of the cut-off side (Fig. 3) and drive side (Fig.
 - 4) become the specifications shown in Table 1.
- 12. Save the adjustment data.

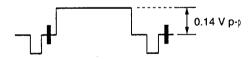


Fig. 3. 525/60 All Gray Signal

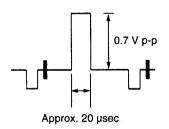


Fig. 4. 525/60 Window Signal

3-9-3. SECAM Cut-off Adjustment

- 1. Select LINE-A input.
- 2. Input the SECAM all gray signal (Fig. 5) into the LINE-A.
- 3. Adjust the luminance to 3 ±0.2 nit using 50 C/O OFFSET SECAM.
- 4. Adjust the white balance to the color temperature shown in Table 1 using 51 C/O R FINE SECAM and 53 C/O B FINE SECAM.
- 5. Repeat steps 3 and 4 so that the luminance and white balance become the specifications shown in Table 1.
- 6. Save the adjustment data.

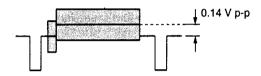


Fig.5. SECAM all gray signal

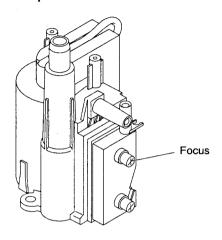
3-9-4. Sub-Brightness Adjustment

After completing the adjustments in 3-9-1, 3-9-2, and 3-9-3, set the sub-brightness data as follows.

No.	Item	Data
33	SUB BRT CVBS	33
34	SUB BRT RGB	33

3-10. FOCUS ADJUSTMENT

Adjust RV702 of the CA board for the 14-inch model. Adjust RV at the top of the FBT for the 20-inch model.



- 1. Input the 525 monoscope signal.
- 2. Adjust the focus so that the focus of the "30" at the center of the screen becomes optimum.
- 3. Switch the signal to all white, and check the uniformity.

SECTION 4 SAFETY RELATED ADJUSTMENTS

Note: The "4-1. B+ Voltage Check" and "4-2.

Protection Circuit (Hold-down circuit) Check" should always be performed when replacing the following components marked

on the

schematic diagram.

A board

Marked products () C102, C331, C332, C333,

C334, C335, C341, C390, C507, D102, D103, C1454,

IC001, IC301, IC552, L505, Q102, R107, R108, R110, R324, R325, R326, R327, R328, R329, R330, T501 4-1. B+ VOLTAGE CHECK

Note: Be sure to use the NF power supply. If not, use

an ordinary power supply of its distortion

factor is 3 % or less.

Input voltage:

 $130 \pm {}_{0}^{3} \text{Vac}$

Input signal:

Black

Controls:

BRIGHTNESS ⇒ Minimum

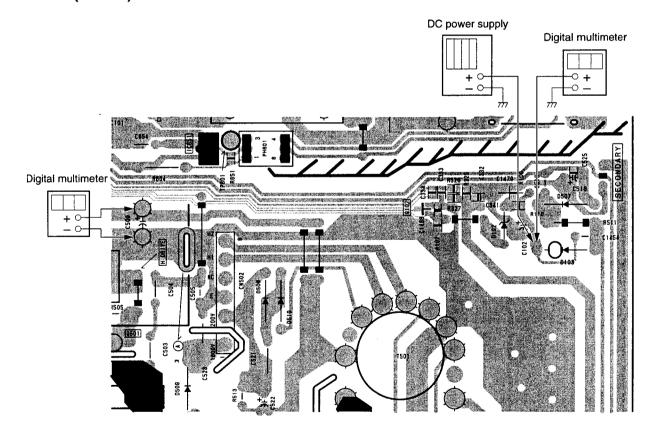
CONTRAST ⇒ Minimum

Specification:

Confirm that the voltage at C500 on the

A board is 116.0 Vdc or less.

A BOARD (B SIDE)



4-2. PROTECTION CIRCUIT (HOLD-DOWN CIRCUIT) CHECK

Note: Be sure to use the NF power supply. If not, use

an ordinary power supply of its distortion

factor is 3% or less.

1. Protection Circuit Normal Operation Check

Input voltage:

120 ± 3 Vac

Input signal:

Black

Controls:

BRIGHTNESS ⇒ Minimum

Specification:

CONTRAST ⇒ Minimum

Confirm that the voltage at Cathode of

D103 on the A board and ground is

greater than 99.0 Vdc.

2. Protection Circuit Operation Check (1)

Input voltage:

130 Vac

Input signal:

Black

Controls:

14-inch: IABL = $40 \pm 20 \mu A$

20-inch: IABL = $120 \pm 20 \mu A$

Specification:

Apply following voltage to Cathode of D103 on the A board from the external DC power supply and make sure that the

hold-down circuit doesn't work. 14-inch: 119.6 ⁺⁰_{-0.4} Vac

20-inch: $145.2^{+0}_{-0.4}$ Vac

3. Protection Circuit Operation Check (2)

Input voltage:

130 Vac

Input signal:

Black

Controls:

14-inch: IABL = $40 \pm 20 \mu A$

20-inch: IABL = $120 \pm 20 \mu A$

Specification:

Apply following voltage to Cathode of D103 on the A board from the external

DC power supply and make sure that the hold-down circuit works.

14-inch: 128.4 ⁺⁰_{-0.4} Vac 20-inch: 156.6 ⁺⁰_{-0.4} Vac

SECTION 5 CIRCUIT ADJUSTMENTS

5-1. PREPARATIONS

Input signals within $\pm 2\%$ of the following specifications.

Signal		Signal Contents	Standard Level P-W
	NTSC	100 % WHITE	0.714 V
	3.58 NTSC 4.43	75 % WHITE	0.536 V
COMPOSITE VIDEO		BURST (GREEN)	286 mV p-p (632 mV p-p)
(75% COLOR	PAL SECAM	100 % WHITE	0.7 V
BAR)		75 % WHITE	0.525 V
		PAL BURST (GREEN)	300 mV p-p (664 mV p-p)

5-2. DEFLECTION SYSTEM ADJUSTMENT

5-2-1. Vertical Deflection Section Adjustment Note: The 16: 9 mode is available only for the PVM-14N6U and PVM-20N6U.

		525 Monoscope	625 Special CB	
4:3		11.75 ±0.2 frames	12.8 ±0.3 frames	
16:9	14-inch	157 mm	157 mm	
	20-inch	221 mm	221 mm	

Vertical Size Specifications

- 1. Input the 525 Monoscope signal.
- 2. Set CONTRAST to 80 %. Set BRIGHTNESS to standard (STD).
- 3. Set the service mode.
- 4. Adjust the vertical size to the specified value using 89 V SIZE.

Optimize the vertical linearity using 92

V LINEARITY and 91 VS-CORRECTION.

Adjust the vertical centering using 88 V CENTER.

(Refer to Note 1.)

- 5. Check that the vertical size is within the specification.
- 6. Set the 16:9 mode.
- 7. Check that the vertical size is within the 16:9 mode specification. (Refer to Note 2.)
- 8. Return to the 4:3 mode.
- 9. Input the 625 special color bar signal.
- 10. Check that the vertical size is within the specification.
- 11. Set the 16: 9 mode.
- 12. Check that the vertical size is within the 16:9 mode specification.
- Note 1: Set 89 V SIZE within the "10 to 63" range.

 Always set 93 V LIN UPPER and 94

 V LIN LOWER to "0."
- Note 2: Measure the vertical size of the 16:9 mode with no flag signal in the vicinity of the image.

5-2-2. Horizontal Deflection Section Adjustment

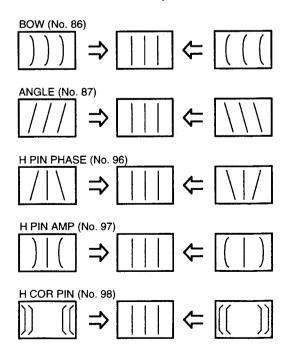
- Note 1: Make sure that the "3-4. Raster Centering Adjustment" has been completed before performing this adjustment.
- Note 2: The 16:9 mode is available only for the PVM-14N6U and PVM-20N6U.
- 1. Input the 525 Monoscope signal.
- Set CONTRAST to 80 %. Set BRIGHTNESS to standard (STD).
- 3. Set the service mode.
- 4. Adjust roughly the horizontal size to 16 frames using 95 H SIZE.
- 5. Adjust the horizontal deflection section using 97
 H PIN AMP, 96 H PIN PHASE, 98
 H CORNER PIN, 86 BOW, 87 ANGLE, and 95 H SIZE.

While correcting the distortion, adjust so that the horizontal and vertical of the screen become perpendicular.

- 6. Set the 16:9 mode.
- 7. Check that the screen distortion is normal.
- 8. Input the 625 special color bar signal.
- 9. Check that the screen distortion is normal for both 4:3 and 16:9.

	525 Monoscope	625 Special CB		
4:3	15.75 ±0.2 frames	16.8 ±0.3 frames		
16:9	15.75 ±0.2 frames	16.8 ±0.3 frames		

Horizontal Size Specification



5-2-3. Horizontal Centering Adjustment

The register for adjusting the horizontal centering requires 5 adjustments depending on the combination of the input and signal.

No.	Item	Input	Adjustment Signal
71	H CENT 60 Hz CVBS	LINE-A	525 Monoscope
72	H CENT 60 Hz RGB	RGB	525 Monoscope
73	H CENT 50 Hz CVBS	LINE-A	625 special color bar
74	H CENT 50 Hz RGB	RGB	625 special color bar
75	HICENTINTSC COMB	LINE-A	525 Monoscope

- 1. Select LINE-A.
- 2. Input the 525 Monoscope signal into the LINE-A input.
- 3. Select NTSC at the COLOR SELECT menu.
- 4. Adjust the horizontal centering using 71 H CENT 60HZ CVBS.
- 5. Select AUTO at the COLOR SELECT menu.
- 6. Adjust the horizontal centering using 75 H CENT NTSC COMB.
- 7. Input the 625 special color bar signal into the LINE-A input.
- 8. Adjust the horizontal centering using 73 H CENT 50HZ CVBS.
- 9. Save the data.

Note: The following items 10 to 16 are for PVM-14N6A, PVM-14N6E, PVM-20N6A and PVM-20N6E.

- 10. Select RGB.
- 11. Select SYNC ON G at the RGB SYNC menu.
- 12. Input the 525 Monoscope signal into the RGB input.
- 13. Adjust the horizontal centering using 72 H CENT 60HZ RGB.
- 14. Input the 625 special color bar signal into the RGB input.
- 15. Adjust the horizontal centering using 74 H CENT 50HZ RGB
- 16. Save the data.

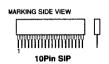
SECTION 6 SEMICONDUCTORS

BA4558 MM1096BD M24C01-BN6 TDA7052A UPC4558C



8Pin DIP

BA7604N



CXA2060BS



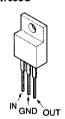
CXA85116B-670S



MC14052BCP



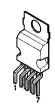
MC7805CT MC7809CT NJM7809FA SE115N TA7805S



STR-S6708



STV9379



BF871 2SA1091O-TPE2 2SA1091-O 2SA933S-RT

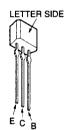
BF421



2SA1037AK-T146-Q 2SC1623-L5L6 2SA2412K-T-146-Q



2SA1175-HFE 2SC1740S-RT 2SC2785-HFE



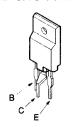
2SC3209LK 2SC3209LK-TP



2SC3852A 2SD2394-EF



2SD1878-CA 2SD1877S-SONY-CA



DAN202K DAN202K-T-146



EGP20G EL1Z EL1Z-V1 GP08D GP08DPKG23 RGP02-17EL-6433 RGP02-17PKG23 RGP10GPKG23



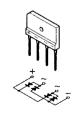
ERC06-15S RGP15J-6040G23 1SS133T-77



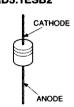
FML-G12S



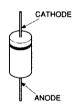
GPU4JL-6088



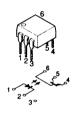
MTZJ-11A MTZJ-5.1B MTZJ-6.2C MTZJ-7.5B RD5.1ESB2



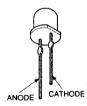
MTZJ-36B RU4AM-T3



RC111YS



SLR-56MC3F



SECTION 7 EXPLODED VIEWS

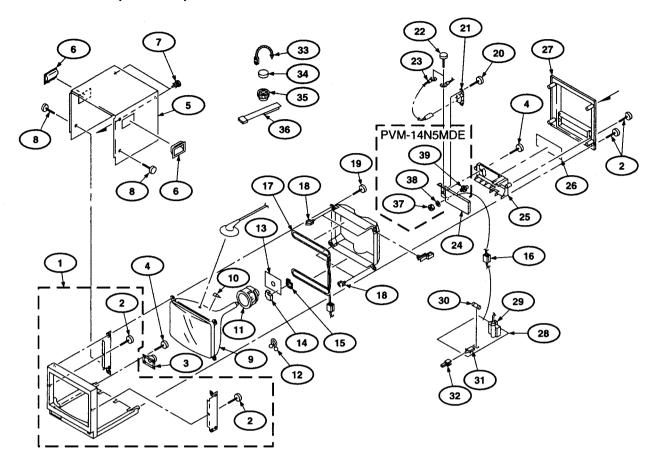
NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by mark ⚠ are critical for safety. Replace only with part number specified.

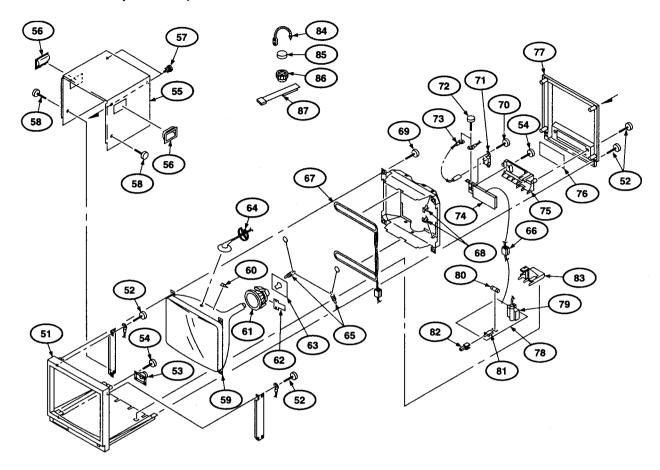
Les composants identifies par une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

7-1. CHASSIS (14-INCH)



Ref.No	. Part No.	Description Remark	Ref.No	o. Part No.	Description Remark
1	X-4033-973-1	BEZNET ASSY (PVM-14N6A/14N6E/14N6U) 2	24	* A-1270-399-A	Q BOARD, COMPLETE (PVM-14N6A/14N6E/14N6U)
	X-4033-974-1	BEZNET ASSY (PVM-14N5A/14N5E/14N5U) 2		* A-1270-401-A	
	X-4033-975-1	BEZNET ASSY (SSM-14N5A/14N5E/14N5U) 2		4-050-074-03	PANEL. CONNECTOR
2	X-4033-976-2 4-039-358-01	BEZNET ASSY (PVM-14N5MDE) 2		4-050-082-02	LABEL, CONNECTOR
		SCREW (4X16), (+) BV TAPPING		4-050-082-12	(PVM-14N6A/14N6E/14N6U) LABEL, CONNECTOR
3 4	1-505-188-11 4-039-356-01	SPEAKER (4X7CM) SCREW (3X12), (+) BV TAPPING		4-050-082-22	(PVM-14N5A/14N5E/14N5U) LABEL, CONNECTOR
5	4-050-073-11 A-1501-211-B	CABINET (except PVM-14N5MDE) CABINET (PVM-14N5MDE)		4-050-082-32	(SSM-14N5A/14N5E/14N5U) LABEL, CONNECTOR (PVM-14N5NDE)
6	4-389-320-21	HANDLE	27	4-050-081-01	PANEL, REAR
7 8	4-391-825-01 4-847-802-11	RIVET, NYLON SCREW (M4X8), CLAW	28		A BOARD, COMPLETE (PVM-14N5A/14N5E/14N5U)
9 10	∆ 8-738-342-05 3-704-495-01	PICTURE TUBE (M34KBE10X) SPACER, DY		* A-1298-615-A	A BOARD, COMPLETE (PVM-14N6A/14N6E/14N6U)
11	∆8-451-472-11	DEFLECTION YOKE (Y14MGAT)		* A-1298-623-A	A BOARD, COMPLETE (SSM-14N5A/14N5E/1LN5U)
12 13	4-847-334-02 'A-1331-827-A	PURSE LOCK (DIA.15) CA BOARD, COMPLETE		* A-1298-624-A	A BOARD, COMPLETE (PVM-14N5)
14 15	'4-374-912-01 '4-374-913-01	COVER (MAIN), CV VOL COVER (REAR LID), CV VOL	29	№ 8-598-830-00	TRANSFORMER ASSY, FLYBACK (NX-4301/J2A4)
16	1-543-653-11	CORE ASSY, BEAD(DIVISION TYPE)		△ 1-576-231-11 △ 1-571-433-31	FUSE (H.B.C.) (4A/250V) SWITCH, PUSH (AC POWER)
17	△1-426-442-21	COIL, DEMAGNETIZATION	32	4-050-085-01	BUTTON, POWER SWITCH
18 19	'4-316-015-00 4-203-648-01	HOLDER, WIRE SCREW (5), SELF TAPPING	33	4-308-870-00	CLIP, LEAD WIRE
20	4-050-078-01	SCREW, +B M3X10	34	1-452-032-00	MAGNET,DISK ; 10mmø
21	∆1-251-263-11	INLET, AC	35 36	1-452-094-00 X-4309-608-0	MAGNET, ROTATABLE DISK; 15mp@ PERMALLOY ASSY, CONVERGEN©E
22	4-050-077-01	SCREW +PSW M4X8	37	*3-175-741-01	NUT (PVM-14N5MDE)
23 24	1-900-214-07 A-1270-398-A	WIRE ASSY, SEFETY EARTH Q BOARD, COMPLETE	38	* 3-175-742-01	WASHER (PVM-14N5MDE)
7-2		(PVM-14N5A/14N5E/14N5MDE/14N5U)	39	* 3-175-740-01	TERMINAL (PVM-14N5MDE) SIIA; massis

7-2. CHASSIS (20-INCH)



Ref.No	. Part No.	Description Remark	Ref.N	o. Part No.	Description Remark	
51	X-4033-977-1	BEZNET ASSY (PVM-20N6A/20N6E/20N6U)	74	* A-1270-398-A	Q BOARD, COMPLETE (PVM-20N5A/20N5E/20N5U)	
	X-4033-978-1	BEZNET ASSY (PVM-20N5A/20N5E/20N5U)		* A-1270-399-A	Q BOARD, COMPLETE (PVM-20N6A/20N6E/20N6U)	
	X-4033-979-1	BEZNET ASSY (SSM-20N5A/20N5E/20N5U)		* A-1270-401-A	Q BOARD, COMPLETE (SSM-20N5A/20N5E/20N5U)	
52	4-039-358-01	SCREW (4X16), (+) BV TAPPING	75	4-050-074-03	PANEL, CONNECTOR	
53	1-505-188-11	SPEAKER (4X7CM)	76	4-050-082-02	LABEL, CONNECTOR (PVM-20N6A/20N6E/20N6U)	
54	4-039-356-01	SCREW (3X12), (+) BV TAPPING			,	
5 5	4-050-060-33	CABINET	76	4-050-082-12	LABEL, CONNECTOR	
56	4-389-320-21	HANDLE			(PVM-20N5A/20N5E/20N5U)	
57	4-391-825-01	RIVET, NYLON		4-050-082-22	LABEL, CONNECTOR	
58	4-847-802-11	SCREW (M4X8), CLAW		4 050 000 04	(SSM-20N5A/20N5E/20N5U)	
	A 0 700 405 05	DIOTI IDE TUDE (MACKOLIAOV)	77 78	4-050-063-01	PANEL, REAR	
59 6 0	№ 8-736-135-05 3-704-495-01	PICTURE TUBE (M49KGH10X) SPACER, DY	/8	* A-1298-619-A	A BOARD, COMPLETE (PVM-20N5A/20N5E/20N5U)	
	△ 1-451-349-11	DEFLECTION YOKE (Y20FZA)		* A-1298-621-A	A BOARD, COMPLETE	
62	4-030-120-01	PLATE, CORRECTION, TLV		A-1230-021-A	(PVM-20N6A/20N6E/20N6U)	
63	* A-1331-828-A	CB BOARD, COMPLETE			(1 111 25115 125115 225115)	
-			78	* A-1298-622-A	A BOARD, COMPLETE	
64	3-704-372-01	HOLDER, HV CABLE			(SSM-20N5A/20N5E/20N5U)	
65	4-369-318-31	SPRING, TENSION	79	∆ 1-453-277-11	TRANSFORMER ASSY, FLYBACK	
66	1-543-653-11	CORE ASSY, BEAD (DIVISION TYPE)			(NX-4008//U2A4)	
67	△ 1-411-750-11	COIL, DEMAGNETIC	80	△ 1-576-231-11	FUSE (H.B.C.) (4A/250V)	
68	4-041-021-02	HOLDER, DEGAUSE COIL	81	₾ 1-571-433-31	SWITCH, PUSH (AC POWER)	
-	4 000 040 04	CODEW (E) CELETADDING	82	4-050-085-01	BUTTON, POWER SWITCH	
69 70	4-203-648-01 4-050-078-01	SCREW (5), SELF TAPPING SCREW, +B M3X10	83	4-050-066-01	HOLDER, PWB	
	△ 1-251-263-11	INLET, AC	84	4-308-870-00	CLIP, LEAD WIRE	
72	4-050-077-01	SCREW +PSW M4X8	85	1-452-032-00	MAGNET, DISK : 10mmø	
73	*1-900-214-07	WIRE ASSY, SEFETY EARTH	86	1-452-094-00	MAGNET, ROTATABLE DISK ; 15mmø	
, ,	1 000 214 07		87	X-4309-608-0	PERMALLOY ASSY, CONVERGENCE	
			1			

SECTION 8 ELECTRICAL PARTS LIST

NOTE:

The components identified by mark \triangle are critical for safety. Replace only with part number specified.

Les composants identifies par une marque \triangle sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS

- · All resistors are in ohms
- F: nonflammable

When indicating parts by reference number, please include the board name.

• CAPACITORS PF: μμ F

 There are some cases the reference number on one board overlaps on the other board. Therefore, when ordering parts by the reference number, please include the board name.



Ref.No.	Part No.	Description		R	lemark	Ref.No.	Part No.	Description		Remark
	* A-1270-398-A		, COMPLETE	Ē • •		C1350	1-163-235-11	CERAMIC CHIP 22PF (except SSM-14		50V 20N5A/E/U)
		(PVM-14N5	5A/E/U, 14N5N	MDE, 2	0N5A/E/U)	C1350	1-216-295-91	SHORT 0	1N5A/E/U, 2	
	* A-1270-399-A	Q BOARD	, COMPLETE	-		C10E1	1 160 005 11			50V
			(PVM-14N6A	/E/U, 2	0N6A/E/U)	C1351		(except SSM-14		
	* A-1270-401-A	Q BOARD	, COMPLETE	:		C1351	1-216-295-91	(SSM-14	IN5A/E/U, 2	•
		******	(SSM-14N5A	* /E/U, 2	0N5A/E/U)	C1352	1-163-235-11	CERAMIC CHIP 22PF (except SSM-14		50V :0N5A/E/U)
						C1352	1-216-295-91		1N5A/E/U, 2	:0N5A/E/U)
		TERMINAL E , 1305, 1306,		320, 13		C1353	1-163-235-11	CERAMIC CHIP 22PF (except SSM-14	5%	50V
		TERMINAL E	SOARD ASSY		,	C1353	1-216-295-91		1N5A/E/U, 2	:0N5A/E/U)
	,		5A/E/U, 14N5N	MDE, 2	0N5A/E/U)	C1354	1-163-021-91	CERAMIC CHIP 0.01;		50V ´
		TERMINAL E		-		C1355		CERAMIC CHIP 22PF		50V
		, 1305, 1306))N5A/E/U)	C1356		CERAMIC CHIP 22PF		50V
	7-627-557-48	SCREW (2.6	X10), +P TAP	PING		C1357	1-163-021-91	CERAMIC CHIP 0.01	μF 10%	50V
						C1358		CERAMIC CHIP 22PF		50V
	<capacito< td=""><td>₹></td><td></td><td></td><td></td><td>C1359</td><td>1-113-340-11</td><td>•</td><td></td><td>25V</td></capacito<>	₹>				C1359	1-113-340-11	•		25V
01000	1 104 000 11	CEDAMIC C	UID 0 01E	100/	E0\/	C1360	1-113-340-11	•		25V
C1303 C1304	1-164-232-11	CERAMIC CI	•		50V 25V	C1361 C1362	1-113-340-11 1-113-340-11	•		25V 25V
C1304		CERAMIC CI	47μF HID 0.47μE	2076	25V 25V	01302	1-113-340-11	ΕΕΕ Ο Ι 47με	20 /0	250
C1303	1-126-795-11		10μF	20%	25V					
C1317	1-126-795-11		10μF		25V		<connecto< td=""><td>)R></td><td></td><td></td></connecto<>)R>		
01017	1 120 700 11	LLLO	(PVM-14N6A							
C1319	1-126-795-11	ELECT	10μF	20%	25V			PLUG, CONNECTOR PLUG, CONNECTOR		
C1320	1-126-795-11		(PVM-14N6A 10μF		0N6A/E/U) 25V	CN1303	* 1-564-522-11	(except SSM-14 PLUG, CONNECTOR		:0N5A/E/U)
C1322	1-126-795-11		(PVM-14N6A 10μF	-	0N6A/E/U) 25V		(exce	pt PVM-14N5A/E/U, 1	4N5MDE, 2	:0N5A/E/U)
0.022	, 120 700 11	,	(PVM-14N6A							
C1325	1-126-795-11		10μF (PVM-14N6A		25V 0N6A/F/U)		<diode></diode>			
C1326	1-126-795-11		10μF		25V	D1300 D1301		DIODE 188133T-77		
C1227	1-126-795-11	ELECT	10μF	200/	25V	D1301		DIODE 1SS133T-77 DIODE 1SS133T-77		
C1327	1-126-795-11		10μF	20%		D1302		DIODE 1SS133T-77		
		(except	t SSM-14N5A	/E/U, 20	0N5A/E/U)	D1304		DIODE 188133T-77		
C1329	1-126-795-11		10μF		25V	D100E	0.710.001.00	DIODE 100100T 77		
C1224	1.164.000.44	(except	t SSM-14N5A	/E/U, 20 10%		D1305 D1308		DIODE 1SS133T-77 DIODE 1SS133T-77		
C1330	1-104-232-11		niP 0.01μF t SSM-14N5A			D1308		DIODE 1SS133T-77		
C1331	1-126-795-11	ELECT	10μF	20%	25V (D1314		DIODE 1SS133T-77		
		(excep	t SSM-14N5A	/E/U, 20	0N5A/E/U)	D1315	8-719-991-33	(PVM-14 DIODE 1SS133T-77	IN6A/E/U, 2	:0N6A/E/U)
C1332		CERAMIC CI		5%	50V			(PVM-14	IN6A/E/U, 2	0N6A/E/U)
C1333	1-163-121-00	CERAMIC CI (except	HIP 150PF t SSM-14N5A	5% /E/U, 20	50V 0N5A/E/U)	D1316	8-719-991-33	DIODE 1SS133T-77		
C1334	1-163-121-00	CERAMIC CI	HIP 150PF (PVM-14N6A	5% /E/U, 20	50V 0N6A/E/U)	D1317	8-719-991-33	(PVM-14 DIODE 1SS133T-77	IN6A/E/U, 2	ON6A/E/U)
C1335 C1341		CERAMIC CI	ĤΙΡ 0.01μF	10%	50V 50V	D1318			IN6A/E/U, 2	ON6A/E/U)
			•					(PVM-14	IN6A/E/U, 2	ON6A/E/U)
C1342 C1343		CERAMIC CI		5% 5%	50V 50V	D1319	ช-719-991-33	DIODE 1SS133T-77 (PVM-14	N6A/E/U, 2	ON6A/E/U\
C1343		CERAMIC CH			50V	D1320	8-719-991-33	DIODE 1SS133T-77		
C1345		CERAMIC CI	•	5%	50V	2,020	57.0001.00		N6A/E/U, 2	ON6A/IE/U\
C1346		CERAMIC CH			50V			(1 * 141 1 7)
		CERAMIC CI	•		25V	D1321	8-719-991-33	DIODE 1SS133T-77	NEA/E/LLO	ONE A (ET/LI)
C1347 C1348	1-164-005-11			10%	25V 50V	D1322	8-719-922-74	PVM-14 DIODE MTZJ-T-77-11	N6A/E/U, 2 A	UNDA/EL/U)
C1348	1-163-021-91			5%	50V 50V	J 1022	J-113-323*14		A N6A/E/U, 2	ON6A#F/LI\
J 1048	00 200-11	J 17 114110 01	1	3 /0				(1 A IAI_1-1-4		UI TURY PLANT



Ref.No. D1324	Part No.	Description		R	amark I						
D1324					emark	Ref.No.		Description			Remark
D TOE T			SM-14N5A/E	E/U, 20	N5A/E/U)	R1317	1-216-065-00	,	4.7K	5%	1/10W
D1325	8-719-991-3	3 DIODE 1SS133		-#1 00	NIC A /C /I IV	R1318	1-216-119-00		820K	5%	1/10W
D4000	0.740.004.0	, ,	SM-14N5A/E	. /U, 20	N5A/E/U)	R1319	1-216-107-00	*	270K 100K	5% 5%	1/10W 1/10W
D1326	8-719-991-3	3 DIODE 1SS133		:// 1 20	NEA/E/III	R1320 R1321	1-216-097-00 1-216-095-00		82K	5%	1/10W
		(except a	SSM-14N5A/E	20, 20	INSA/L/U)	R1331	1-216-033-00		1K	5%	1/10W
D1327	8-719-991-3	3 DIODE 1SS133	3T-77			111001	1-210-0-3-31	TILO,OI III	(PVM-14N6A/		
D1327	0-713-331-0		SM-14N5A/E	E/U. 20	N5A/E/U)				(.0.10,120,
D1328	8-719-991-3	3 DIODÈ 155133				R1332	1-216-073-00	RES,CHIP	10K (PVM-14N6A/	5% F/U. 2	1/10W 20N6A/E/U)
D1329	8-719-991-3	3 DIODÈ 155133			1	R1333	1-216-073-00	RES,CHIP	10K (PVM-14N6A/	5%	1/10W
D1330	8-719-991-3	3 DIODÈ 155133	3T-77			R1335	1-216-049-91	RES,CHIP	1K (PVM-14N6A/	5%	1/10W
D1331	8-719-991-3	3 DIODÈ 155133				R1336	1-216-073-00	RES,CHIP	10K	5%	1/10W
		(except S	SSM-14N5A/E	±/U, 20	INSA/E/U)	D1227	1 216 072 00	DEC CUID	(PVM-14N6A/ 10K	⊑/U, ∠ 5%	1/10W
D1332	8-719-991-3	3 DIODE 18813		-#1 00	NO 4 /5 /1 I)	R1337	1-216-073-00	HES,UNIF	(PVM-14N6A/		
D4000	0.740.004.0	•	PVM-14N6A/E	-/0, 20	INGA/E/U)	D1000	1 216 000 00	DEC CUID	22	5%	1/10W
D1333	8-/19-991-3	3 DIODE 1SS133	31-77 PVM-14N6A/E	=/11 20	N6A/E/LIN	R1338	1-216-009-00	HES,UNIF	(PVM-14N6A/		
		(1	V 1VI- 1-4140/-V L	JO, 20	11070270)	R1339	1-214-702-00	METAL	75 (PVM-14N6A/	1%	1/4W
	<ic></ic>					R1340	1-216-049-91	RES,CHIP	` 1K	5%	1/10W
IC1301	8-750-084-0	6 IC BA7604N				R1341	1-216-073-00	BES CHIP	(PVM-14N6A/ 10K	⊑/∪, ∠ 5%	1/10W
101301	6-739-904-9	0 10 DA700414				111041	1-210-070-00	71120,01111	(PVM-14N6A/		
	<jack></jack>					R1342	1-216-073-00	RES,CHIP	10K (PVM-14N6A/	5%	1/10W
J1303		2 TERMINAL, (S		4P		R1343	1-216-009-00	RES,CHIP	22	5%	1/10W
J1304 J1319		1 TERMINAL, S 2 TERMINAL, (S		4P		R1344	1-214-702-00	METAL	(PVM-14N6A/ 75	E/U, 2 1%	20N6A/E/U) 1/4W
		(except S	SSM-14N5A/E	E/U, 20	N5A/E/U)	R1345	1-216-009-00	RES,CHIP	(PVM-14N6A/ 22	5%	1/10W
	<transist< td=""><td>OR></td><td></td><td></td><td></td><td>R1346</td><td>1-214-702-00</td><td>METAL</td><td>(PVM-14N6A/ 75</td><td>E/U, 2 1%</td><td>20N6A/E/U) 1/4W</td></transist<>	OR>				R1346	1-214-702-00	METAL	(PVM-14N6A/ 75	E/U, 2 1%	20N6A/E/U) 1/4W
0.4000	0.700.440.7		0000705 UE	_		D4047	4 040 005 00	N DEC CUID	(PVM-14N6A/	,	
Q1302		'8 TRANSISTOR '6 TRANSISTOR				R1347	1-216-065-00	RES,CHIP	4.7K	-5% ⊏// 1-2	1/10W
Q1305 Q1308		8 TRANSISTOR							(PVM-14N6A/	E/U, 2	:UNDAVE/U)
			PVM-14N6A/E	E/U, 20	N6A/E/U)	R1348	1-216-119-00	RES,CHIP	820K (PVM-14N6A/	5% E/II 2	1/10W
Q1309		(F	PVM-14N6A/E	E/U, 20	N6A/E/U)	R1349	1-216-107-00	RES,CHIP	270K	5%	1/10W
Q1310	8-729-119-7	'8 TRANSISTOR	2502785-HF PVM-14N6A/E		NEA/E/LIN	R1350	1-216-097-00	DEC CHID	(PVM-14N6A/ 100K	5%	1/10W
		(1	VIVI-14INOAVE	20, 20	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	111000	1-210-097-00	TILO,OTIII	(PVM-14N6A/		
Q1311	8-729-119-7	6 TRANSISTOR	2SA1175-HF PVM-14N6A/E		NISA/E/LI)	R1351	1-216-095-00	RES,CHIP	82K (PVM-14N6A/	5%	1/10W
Q1312	8-729-119-7	8 TRANSISTOR	2SC2785-HF	Έ		R1352	1-216-059-00	RES,CHIP	2.7K (PVM-14N6A/	5%	1/10W
Q1313	8-729-119-7	rs TRANSISTOR	PVM-14N6A/E 2SC2785-HF		1107VE/U)				(1 VIVI-141VAV	∠ ب ∠	.UNUNL/U)
Q1314			SSM-14N5A/E	E/U, 20	N5A/E/U)	R1355	1-216-049-91	RES,CHIP	1K (PVM-14N6A/		1/10W 20N6A/E/U)
<u></u>	, ,,,, ,		SSM-14N5A/E		N5A/E/U)	R1356	1-214-702-00	METAL	75 (PVM-14N6A/	1%	1/4W
						R1358	1-247-791-91	CARBON	22	5%	1/4W
	<resistor< td=""><td>₹></td><td></td><td></td><td></td><td>R1360</td><td>1-214-702-00</td><td>METAL</td><td>75</td><td>1%</td><td>1/4W</td></resistor<>	₹>				R1360	1-214-702-00	METAL	75	1%	1/4W
R1303	1-216-000-0	00 RES,CHIP	22	5%	1/10W	R1361	1-247-791-91	• •	t SSM-14N5A/ 22	⊏/U, ∠ 5%	1/4W
R1304	1-214-702-0		75	1%	1/4W		, , , , , ,		t SSM-14N5A/		
R1305		0 RES,CHIP	4.7K	5%	1/10W			(Joodp		,,	
R1307	1-214-702-0		75	1%	1/4W	R1362	1-216-009-00	RES.CHIP	22	5%	1/10W
R1308		0 RES,CHIP	2.7K	5%	1/10W		5 555 66		t SSM-14N5A/		
, ,,,,,,,	5 555 6					R1363	1-214-702-00		75	1%	1/4W
R1309	1-216-073-0	0 RES,CHIP	10K	5%	1/10W				t SSM-14N5A/		
R1310		0 RES,CHIP		5%	1/10W	R1364	1-216-065-00	, ,	4.7K	5%	1/10W
R1311	1-214-702-0		75	1%	1/4W	*			SSM-14N5A		
R1312		00 RES,CHIP	4.7K	5%	1/10W			,		,	/



Ref.I	۱o.	Part No. D	escription	Remark	Ref.No.	Part No.	Description			Remark
R13	65	1-214-702-00 l		75 1% 1/4W 6M-14N5A/E/U, 20N5A/E/U)		4-382-854-11	SCREW (M3X10), P, SW (+)		
R13	66	1-216-065-00		4.7K 5% 1/10W SM-14N5A/E/U, 20N5A/E/U)		<capacitof< td=""><td>?></td><td></td><td></td><td></td></capacitof<>	?>			
R13	67	1-163-021-91	CERAMIC CHIP		C001	1-163-021-91	CERAMIC CHIP	0.01μF 1	0%	50V
				SM-14N5A/E/U, 20N5A/E/U)	C002	1-163-021-91	CERAMIC CHIP		0%	
R13	868	1-216-073-00		10K 5% 1/10W	C003		CERAMIC CHIP	•	0%	
				SM-14N5A/E/U, 20N5A/E/U)	C004		CERAMIC CHIP		0%	
R13		1-216-073-00	(except SS	10K 5% 1/10W 6M-14N5A/E/U, 20N5A/E/U)	C006	1-163-021-91	CERAMIC CHIP (PV	0.01μF 1 M-14N6A/E/	0% J, 20	
R13	370	1-216-059-00		2.7K 5% 1/10W SM-14N5A/E/U, 20N5A/E/U)	C007	1-163-021-01	CERAMIC CHIP	0.01uF 1	0%	50V
			(except 5	3W-14N3AL10, 20N3AL10)	C008		CERAMIC CHIP		0%	50V
R13	371	1-216-095-00	RES.CHIP	82K 5% 1/10W	C010		CERAMIC CHIP		%	50V
				SM-14N5A/E/U, 20N5A/E/U)	C011	1-163-235-11	CERAMIC CHIP	22PF 5	%	50V
R13	372	1-216-097-00	(except SS	100K 5% 1/10W SM-14N5A/E/U, 20N5A/E/U)	C012		CERAMIC CHIP		0%	50V
R13	373	1-216-119-00	RES,CHIP	820K 5% 1/10W	C013	1-126-964-11			20%	50V
				SM-14N5A/E/U, 20N5A/E/U)	C014		CERAMIC CHIP		%	50V
R13	374	1-216-107-00		270K 5% 1/10W	C015		CERAMIC CHIP		% !^%	50V 16V
D44)7F	1-216-065-00		SM-14N5A/E/U, 20N5A/E/U) 4.7K 5% 1/10W	C016 C017	1-126-933-11 1-126-964-11		•	:0% :0%	50V
R13	3/5	1-216-065-00	(except S	6M-14N5A/E/U, 20N5A/E/U)	C017	1-126-964-11		•		50V
R13	76	1-216-073-00	DES CHID	10K 5% 1/10W	C019	1-126-964-11			20%	
ni	570	1-210-075-00		/M-14N6A/E/U, 20N6A/E/U)	C020	1-126-964-11			20%	50V
R10	378	1-216-009-00		22 5% 1/10W	C021	1-126-964-11		•		50V
R10		1-216-047-91	(P)	VM-14N6A/E/U, 20N6A/E/U) 820 5% 1/10W	C022	1-163-021-91	CERAMIC CHIP	0.01μF 1	0%	50V
R13		1-216-047-91		820 5% 1/10W	C023		CERAMIC CHIP		%	50V
					C024	1-163-251-11	CERAMIC CHIP		%	50V
					C025	1-136-165-00			%	50V
					C026	1-104-664-11		•	20%	16V
*****	*****	********	*****		C027		CERAMIC CHIP		0%	50V
		* A-1298-614-A	A BOARD, C	OMPLETE	C028		CERAMIC CHIP		0% 20%	50V 16V
			*******	(D) (BA 4 ANE A /E /L I)	C030	1-104-664-11	CERAMIC CHIP		0%	50V
				(PVM-14N5A/E/U)	C031 C032	1-103-021-91			20%	16V
		* A-1298-615-A	A BOARD, C	OMPLETE	C101	1-107-907-11			20%	50V
				(PVM-14N6A/E/U)	C102	1-107-635-11	ELECT	4.7μF 2	20%	160V
				,	C103	1-102-050-00	CERAMIC	0.01μF		500∨
		* A-1298-619-A	A BOARD, C	OMPLETE	C201	1-126-964-11				50V
			*******	**************************************	C202	1-126-964-11		•	20%	
				(PVM-20N5A/E/U)	C203	1-126-934-11			20%	
		* A-1298-621-A	A BOARD, C		C204	1-126-964-11		•	20% 20%	
				(PVM-20N6A/E/U)	C206 C207	1-126-940-11	CERAMIC CHIP		20% 10%	
				(F VIVI-20110A/E/O)	C207		CERAMIC CHIP		5%	50V
		* A-1298-622-A	A BOARD, C		C301	1-126-960-11			20%	
				(SSM-20N5A/E/U)	C302	1-163-021-91	CERAMIC CHIP	0.01μF 1	10%	50V
				(22 23.10. 2 2 0)	C303	1-107-714-11			20%	
		* A-1298-623-A			C304	1-164-004-11	CERAMIC CHIP	0.1μF 1		25V
			******		C305	1-126-964-11				50V
				(SSM-14N5A/E/U)	C306	1-126-964-11		'	20%	
		* A-1298-624-A			C307		CERAMIC CHIP		5%	50V
			*******		C308	1-126-961-11				50V
				(PVM-14N5MDE)	C309		CERAMIC CHIP			50V
		4 500 000 11	HOLDED THE	_	C310	1-164-004-11	CERAMIC CHIP			25V
			HOLDER, FUSE	=	C311	1-164-004-11	CERAMIC CHIP	/M-14N6A/E/ 0.1uE 1		25V
			HOLDER, LED SPACER, INSU	LATING	0311	1-104-004-11		0.1μΡ 'M-14N6A/E/		
		4-201-023-01		LATING	C312	1-164-004-11	CERAMIC CHIP	0.1uF 1	0%	25V
		4-202-010-01	J. 11114, 10					/M-14N6A/E/		



Ref.No.	Part No.	Description		Re	emark	Ref.No	. Part No.	Description			Remark
			0.0455	10%	501/	C373	1 162 021 01	CERAMIC CHIP	ΛΩίυΕ	10%	501/
C313		00 CERAMIC CHIP		10%		C374	1 162 021 01	CERAMIC CHIP		10%	50V
C314		00 CERAMIC CHIP				C374		CERAMIC CHIP		10%	50V
C315		00 CERAMIC CHIP	,	10%			1-103-021-91			5%	50V
C316	1-115-339-	11 CERAMIC CHIP	0.1μΕ	10%	500	C376		CERAMIC CHIP		5% 5%	50V
			000 F	000/	0511	C377	1-103-251-11	CENAIVIC CHIP	1001	J /6	30 V
C317	1-126-940-		330μF	20%		0070	1 100 001 01	CEDAMIC CHID	0.01uE	10%	501/
C318	1-163-251-	11 CERAMIC CHIP	100PF	5%	50V	C378		CERAMIC CHIP			
C319		11 CERAMIC CHIP		10%		C379	•	CERAMIC CHIP		10%	
C320	1-163-009-	11 CERAMIC CHIP	0.001μF	10%		C380		CERAMIC CHIP		5%	50V
C321	1-126-964-	11 ELECT	10μF	20%	50V	C381	1-163-009-11	CERAMIC CHIP			50V
						C382	1-163-009-11	CERAMIC CHIP	0.001μΕ	10%	50V
C322	1-126-963-		4.7μF		50V				_		
C323	1-163-021-	91 CERAMIC CHIP	0.01µF	10%	50V	C383		CERAMIC CHIP		10%	
C324	1-126-933-		100µF	20%	16V	C384		CERAMIC CHIP		10%	
C325		11 CERAMIC CHIP		10%	50V	C385	1-163-009-11	CERAMIC CHIP	0.001μF	10%	
C326	1-126-957-		0.22µF	20%		C386	1-163-009-11	CERAMIC CHIP	0.001µF	10%	50V
0320	1-120-337	II CEEO!	0.2241	20,0		C387	1-163-009-11	CERAMIC CHIP	0.001µF	10%	50V
C207	1 100 110	00 CERAMIC	220PF	10%	50V	0007	1 100 000 11				
C327		00 CERAMIC CHIP		5%	50V	C388	1-162-900-11	CERAMIC CHIP	0.047uF	10%	25V
C328	1-163-099-	OU CERAMIC CRIP	IOFF		50V	C389		CERAMIC CHIP	•	5%	50V
C329		00 CERAMIC CHIP	1827	5%				CERAMIC CHIP			50V
C330	1-136-177-		1μF	5%	50V	C390			•		50V 50V
C331	1-101-810-	00 CERAMIC	100PF	5%	500V	C401	1-126-964-11		•		
						C402	1-126-964-11	ELECT	10μF	20%	50V
C332	1-136-177-		1μF	5%	50V					000/	501
C333	1-115-339-	11 CERAMIC CHIP	0.1μF	10%		C403	1-107-714-11				50V
C334	1-164-004-	11 CERAMIC CHIP	0.1μF	10%	25V	C404	1-126-964-11				50V
C335	1-163-251-	11 CERAMIC CHIP	100PF	5%	50V	C405	1-163-113-00	CERAMIC CHIP	68PF	5%	50V
C336	1-126-964-		10μF	20%	50V	C406	1-163-009-11	CERAMIC CHIP	0.001μF	10%	50V
0000	20 00 .					C407	1-163-113-00	CERAMIC CHIP	68PF	5%	50V
C337	1-115-330-	11 CERAMIC CHIP	0.1uF	10%	50V						
C338	1 160 005	11 CERAMIC CHIP	22DE	5%	50V	C408	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
				5%	50V	C409	1-126-964-11		10μF	20%	
C339		11 CERAMIC CHIP			50V 50V	C410		CERAMIC CHIP		10%	
C340	1-163-235-	11 CERAMIC CHIP	22PF	5%			1 100 110 00	CERAMIC CHIP	60DE	5%	50V
C341	1-163-021-	91 CERAMIC CHIP	² 0.01μ Γ	10%	50V	C411					50V 50V
						C412	1-163-113-00	CERAMIC CHIP	68PF	5%	50 v
C342	1-163-235-	11 CERAMIC CHIP	22PF	5%	50V					400/	501/
C343	1-163-235-	11 CERAMIC CHIP	22PF	5%	50V	C413		CERAMIC CHIP		10%	
C344	1-102-514-	11 CERAMIC	22PF	5%	50V	C414		CERAMIC CHIP		5%	50V
C345	1-163-009-	11 CERAMIC CHIP	0.001μF	10%	50V	C415	1-163-009-11	CERAMIC CHIP	0.001μF	10%	
C351		11 CERAMIC CHIP			50V	C416	1-163-009-11	CERAMIC CHIP	0.001μF	10%	50V
0001						C417	1-163-113-00	CERAMIC CHIP	68PF	5%	50V
C352	1-163-021.	91 CERAMIC CHIP	0.01uE	10%	50V	•		(except SS	SM-14N5A/E	:/U, 2	0N5A/E/U)
C352		-11 ELECT	330μF		25V			(,	,
		-11 CERAMIC CHIF		5%	50V	C417	1-216-295-91	SHORT	0		
C354	1-163-235	OF OFFICE CHIE	2277			0417	1-210-233-31		SM-14N5A/E	/11.2	ON5A/F/LI)
C355	1-163-131	-00 CERAMIC CHIF	39025		50V	C418	1 160 110 00	CERAMIC CHIP			
				•	nch model)	U410	1-103-113-00	OENAIVIIC CHIF	SM-14N5A/E	J/6	ONE A /E/LIV
C355	1-163-263	-11 CERAMIC CHIP	330PF		50V		4 040 005 04			:/U, 2	UNSAVE/U)
				(14ir	ich model)	C418	1-216-295-91		0		ONIC A /E // I)
								,	SM-14N5A/E		
C356	1-163-121	-00 CERAMIC CHIF	2 150PF	5%	50V	C419	1-163-113-00	CERAMIC CHIP			50V
C357		-91 CERAMIC CHIF		10%	50V			(except SS	SM-14N5A/E	E/U, 2	ON5A/E/U)
C358		-11 CERAMIC CHIE		5%	50V	C419	1-216-295-91	SHORT	0		
C359	1-163-131	-00 CERAMIC CHIP	390PF	5%	50V			(89	SM-14N5A/E	E/U, 2	0N5A/E/U)
C353	1 100 101	00 0212 4010 01 111			nch model)			,			
COSO	1 162 262	-11 CERAMIC CHIF	330PE	5%	50V						
C359	1-103-203	- IT CENAIVIC CITIF	33011		nch model)	C420	1-163-000-11	CERAMIC CHIP	0.001uE	10%	50V
				(1411	ich model)	0420	1-100-000-11		SM-14N5A/E		
			1 4 E O D C	50 /	F0)/	C400	1 216 205 01	, ,	0	۷٠, ح	ONONEO)
C360	1-163-121	-00 CERAMIC CHIP	150PF	5%	50V	C420	1-216-295-91			-#1.0	ONE A /E/III
C361	1-163-021	-91 CERAMIC CHIE	- 0.01μF		50V	l			SM-14N5A/E		
C362	1-163-235	-11 CERAMIC CHIF	22PF	5%	50V	C421	1-126-933-1		100μF		16V
C363	1-163-131	-00 CERAMIC CHIF	290PF	5%	50V	C422		CERAMIC CHIP			50V
				(20ir	nch model)	C423	1-126-933-11	I ELECT	100μF	20%	16V
C363	1-163-263	-11 CERAMIC CHIF	2 330PF	5%	50V						
5005		*		(14ir	nch model)	C424	1-115-339-1	I CERAMIC CHIP	0.1μF		50V
				,	,	C425	1-126-940-1		330μF	20%	25V
C364	1_163_101	-00 CERAMIC CHIP	2 150PF	5%	50V	C426		CERAMIC CHIP			50V
	1 100-121	-91 CERAMIC CHIF	2001		50V	C500	1-123-024-2		33μF	, . .	160V
C366					16V		△ 1-117-648-1		15000PF	3%	1.2KV
C367		-11 ELECT	100μF			0301	<u> ۱-۱۱۲-۵40-۱</u>		,00001	J /0	
C368	1-163-021	-91 CERAMIC CHIE	- υ.υ1μF		50V	1					
C372	1-163-021	-91 CERAMIC CHIF	- 0.01μF	10%	50V	I					



CS02	Ref.No.	. Part No.	Description		R	emark	Ref.No.	Part No.	Description		ı	Remark
CS02	C502		1 FII M	0.018uF	5%	400V	C660	1-163-021-91	CERAMIC CHIP	0.01uE	10%	50V
CS02	U302	412 1-130-077-9	I LITIAI	υ.υ τομι						•		
CS03	0500	A 4 400 740 0	4 771 14	0.015	•							
CS05	C502	∆ 1-129-716-9	I FILM	0.015μΕ						•		
Code										•		
CS05							C664	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
CS06		△ 1-162-116-9	1 CERAMIC									
CS06	C505	1-130-489-0	0 FILM	0.033µF	5%	50V	C671				20%	
CS09							C1401	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
CS09	C506	1-136-541-1	1 FILM	1.5μF	5%	200V	C1402	1-163-259-91	CERAMIC CHIP	220PF	5%	50V
CS09	C507	1-136-113-0	0 FILM	2µF	5%	200V	C1403	1-102-514-11	CERAMIC	22PF	5%	50V
CS09	C508	1-102-228-0	0 CERAMIC	470PF	10%	500V 1	C1404	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C510												
C301ch mode C1406 1-163-295-11 CERAMIC CHIP 22PF 5% 50V C1407 1-163-093-10 CERAMIC CHIP 0.01µF 10% 50V C1512 1-102-228-00 CERAMIC 470PF 10% 50V C1411 1-163-235-11 CERAMIC CHIP 0.01µF 10% 50V C1513 1-163-293-11 CERAMIC CHIP 22PF 5% 50V C1412 1-163-235-11 CERAMIC CHIP 0.01µF 10% 50V C1417 1-163-235-11 CERAMIC CHIP 0.01µF 10% 50V C1418 1-163-235-11 CERAMIC CHIP 0.01µF 10% 50V C1418 1-163-235-11 CERAMIC CHIP 0.01µF 10% 50V C1418 1-163-235-11 CERAMIC CHIP 0.01µF 10% 50V C1425 1-163-235-11 CERAMIC CHIP 0.0							C1405	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C510	00.0	1 100 100 0	0 1 12111	0.00р.								
C100					(2011	ion model,						
C511 1-106-371-00 MYLAR	CE10	1 100 100 0	O EU M	0.1	E0/	2007				•		
C512 1-106-371-00 MYLAR	CSTO	1-130-103-0	U FILIVI	υ. ιμπ								
C513 1-102-228-00 CERAMIC CHIP 22PF 5% 50V C514 1-107-924-11 ELECT 0.47µF 20% 50V C516 1-128-941-11 ELECT 0.47µF 20% 50V C517 1-101-910-00 CERAMIC CHIP 20PF 5% 50V C518 1-128-941-11 ELECT 470µF 20% 25V C519 1-101-910-00 CERAMIC CHIP 0.01µF 10% 50V C519 1-101-910-00 CERAMIC CHIP 0.01µF 10% 50V C522 1-107-638-11 ELECT 30µF 20% 160V C1413 1-163-021-91 CERAMIC CHIP 0.01µF 10% 50V C522 1-107-638-11 ELECT 30µF 20% 160V C1416 1-163-021-91 CERAMIC CHIP 0.01µF 10% 50V C525 1-163-021-91 CERAMIC CHIP 0.01µF 10% 50V C1429 1-163-021-91 CERAMIC CHIP 0.01µF 10% 50V C525 1-163-021-91 CERAMIC CHIP 0.01µF 10% 50V C1418 1-163-021-91 CERAMIC CHIP 0.01µF 10% 50V C1429 1-163-021-11 CERAMIC CHIP	0=44				(14In	- 1	C1409	1-163-009-11	CERAMIC CHIP	0.001μ -	10%	500
C514												
C514											-	
C516 1-126-941-11 ELECT 470µF 20% 25V C517 1-101-810-00 CERAMIC 100PF 5% 500V C518 1-126-941-11 ELECT 470µF 20% 25V C519 1-101-810-00 CERAMIC 100PF 5% 500V C7141 1-163-901-91 CERAMIC CHIP 0.01µF 10% 50V C7141 1-163-901-91 CERAMIC CHIP 0.001µF 10% 50V C7142 1-163-900-91 CERAMIC	C513	1-163-235-1	1 CERAMIC CHIP					1-163-235-11	CERAMIC CHIP	22PF		
C516 1-126-941-11 ELECT 470µF 20% 50V C1414 1-163-021-91 CERAMIC CHIP 0.01µF 10% 50V C1518 1-126-941-11 ELECT 470µF 20% 50V C1415 1-115-339-11 CERAMIC CHIP 0.01µF 10% 50V C1427 1-163-021-91 CERAMIC CHIP 0.01µF 10% 50V C1421 1-163-021-91 CERAMIC CHIP 0.001µF 10% 50V C1423 1-163-021-91 CERAMIC CHIP 0.001µF 10% 50V C1424 1-102-129-00 CERAMIC CHIP 0.01µF 10% 50V C1425 1-163-009-11 CERAMIC CHIP 0.01µF 10% 50V C1426 1-163-009-11 CERAMIC CHIP 0.01µF 10% 50V C1427 1-163-009-11 CERAMIC CHIP 0.01µF 10% 50V C1428 1-163-009-11 CERAMIC CHIP 0.01µF 10% 50V C1429 1-16	C514	1-107-924-1	1 ELECT	0.47μF	20%	50V	C1412	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C517 1-101-810-00 CERAMIC							C1413	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C517 1-101-810-00 CERAMIC	C516	1-126-941-1	1 ELECT	470μF	20%	25V	C1414	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C518 1-126-941-11 ELECT 470µF 20% 25V C1415 1-115-339-11 CERAMIC CHIP 0.01µF 10% 50V C522 1-107-638-11 ELECT 33µF 20% 160V C1417 1-163-021-91 CERAMIC CHIP 0.01µF 10% 50V C1427 1-163-021-91 CERAMIC CHIP 0.001µF 10% 50V C1428 1-163-021-91 CERAMIC CHIP 0.001µF 10% 50V C1429 1-163-009-11 CERAMIC CHIP 0.001µF 10% 50V C1429 1-163-009-11 CERAMIC CHIP 0.001µF 10% 50V C1421 1-163-009-11 CERAMIC CHIP 0.001µF 10% 50V C1422 1-163-209-11 CERAMIC CHIP 0.001µF 10% 50V C1423 1-163-009-11 CERAMIC CHIP 0.001µF 10% 50V C1423 1-163-009-11 CERAMIC CHIP 0.001µF 10% 50V C1424 1-102-129-00 CERAMIC CHIP 0.01µF 10% 50V C1425 1-163-009-11 CERAMIC CHIP 0.001µF 10% 50V C1427 1-163-009-11 CERAMIC CHIP 0.001µF 10% 50V C1428 1-163-009-11 CERAMIC CHIP 0.001µF 10% 50V C1429 1-163-009-11 CERAMIC CHIP 0.001µF 1		1-101-810-0	0 CERAMIC	•		1				•		
C519 1-101-810-00 CERAMIC 100PF 5% 500V C1416 1-163-021-91 CERAMIC CHIP 0.01µF 10% 50V C1417 1-163-021-91 CERAMIC CHIP 0.001µF 10% 50V C1418 1-163-021-91 CERAMIC CHIP 0.001µF 10% 50V C1428 1-163-021-91 CERAMIC CHIP 0.001µF 10% 50V C1429 1-163-021-91 CERAMIC CHIP 0.001µF 10% 50V C1429 1-163-021-91 CERAMIC CHIP 0.001µF 10% 50V C1420 1-163-021-91 CERAMIC CHIP							C1415	1-115-339-11	CERAMIC CHIP	0.1µF	10%	50V
C522 1-107-638-11 ELECT 33µF 20% 160V C1419 1-163-029-11 CERAMIC CHIP 0.01µF 10% 50V C523 1-162-114-00 CERAMIC CHIP 0.01µF 10% 50V C1429 1-163-029-11 CERAMIC CHIP 0.001µF 10% 50V C1429 1-163-029-11 CERAMIC CHIP 0.001µF 10% 50V C1420 1-163-029-11 CERAMIC CHIP 0.00				•								
C1418 1-163-009-11 CERAMIC CHIP 0.001μF 10% 50V 1-163-009-11 CERAMIC CHIP 0.001μF												
C523 1-162-114-00 CERAMIC O.1047µF 2FK 1-163-029-91 CERAMIC CHIP 0.01µF 10% 50V C525 1-163-021-91 CERAMIC CHIP 0.01µF 10% 50V C1421 1-163-029-91 CERAMIC CHIP 0.01µF 10% 50V C1421 1-163-029-91 CERAMIC CHIP 0.01µF 10% 50V C1422 1-163-029-91 CERAMIC CHIP 0.01µF 10% 50V C1423 1-163-029-91 CERAMIC CHIP 0.001µF 10% 50V C1423 1-163-029-91 CERAMIC CHIP 0.001µF 10% 50V C1424 1-163-029-91 CERAMIC CHIP 0.001µF 10% 50V C1425 1-163-029-91 CERAMIC CHIP 0.001µF 10% 50V C1426 1-163-029-91 CERAMIC CHIP 0.001µF 10% 50V C1426 1-163-029-91 CERAMIC CHIP 0.001µF 10% 50V C1427 1-163-029-91 CERAMIC CHIP 0.001µF 10% 50V C1428 1-163-029-91 CERAMIC CHIP 0.001µF 10% 50V C1429 1-163-029-11 CERAMIC CHIP 0.001µF 10% 50V C1429 1-163-	UJZZ	1-107-050-1	LLLOI	σομι	20 /0	1004						
C524 1-163-021-91 CERAMIC CHIP 0.01µF 10% 50V C1420 1-163-009-11 CERAMIC CHIP 0.01µF 10% 50V C1421 1-163-009-11 CERAMIC CHIP 0.001µF 10% 50V C1422 1-163-009-11 CERAMIC CHIP 0.001µF 10% 50V C1423 1-163-009-11 CERAMIC CHIP 0.001µF 10% 50V C1424 1-102-129-00 CERAMIC CHIP 0.01µF 10% 50V C1425 1-163-009-11 CERAMIC CHIP 0.001µF 10% 50V C1425 1-163-009-11 CERAMIC CHIP 0.001µF 10% 50V C1426 1-163-009-11 CERAMIC CHIP 0.001µF 10% 50V C1427 1-163-009-11 CERAMIC CHIP 0.001µF 10% 50V C1428 1-163-009-11 CERAMIC CHIP 0.001µF 10% 50V C1429 1-163-009-11 CERAMIC CHIP 0.001µF 10% 5	CEOO	1 100 114 0	O CEDAMIC	0.0047E		2007				•		
C5252 1-163-021-91 CERAMIC CHIP 0.01 μF 10% 50V C1420 1-163-009-11 CERAMIC CHIP 0.00 μF 10% 50V C551 1-107-910-11 ELECT 100 μF 20% 50V C1421 1-163-009-11 CERAMIC CHIP 0.00 μF 10% 50V C552 1-137-401-11 FILM 0.22 μF 10% 50V C1422 1-163-009-11 CERAMIC CHIP 0.00 μF 5% 50V C553 1-107-905-11 ELECT 4.7 μF 20% 50V C1423 1-163-009-11 CERAMIC CHIP 2.00 μF 5% 50V C554 1-163-009-11 CERAMIC CHIP 0.00 μF 10% 50V C1425 1-163-009-11 CERAMIC CHIP 0.1 μF 10% 50V C555 1-126-964-11 ELECT 10 μF 20% 50V C1425 1-163-009-11 CERAMIC CHIP 0.1 μF 10% 50V C559 1-164-004-11 CERAMIC CHIP 0.1 μF 10 μF 20% 50V C1429 1-163-009-11 CERAMIC CHIP 0.01 μF 10% 50V C559 1-164-004-11 CERAMIC CHIP 0.1 μF 10 √22 μF 20% 50V C1429 1-163-009-11 CERAMIC CHIP 0.1 μF 10% 50V C602 Δ 1-107-564-11 FILM 0.22 μF 20% 50V C1429 1-15-339-11 CERAMIC CHIP 0.1 μF 10% 50V					4.00/		C1419	1-103-009-11	CERAMIC CHIP	0.001μΕ	10%	50V
C551 1-107-910-11 ELECT 100µF 20% 50V C1421 1-163-261-11 CERAMIC CHIP 0.001µF 10% 50V C552 1-137-401-11 FILM 0.22µF 10% 100V C1422 1-163-261-11 CERAMIC CHIP 0.001µF 50V C553 1-107-905-11 ELECT 4.7µF 20% 50V C1423 1-163-259-91 CERAMIC CHIP 2.00µF 50V C555 1-126-964-11 ELECT 10µF 20% 50V C1425 1-133-31-1 CERAMIC CHIP 0.01µF 10% 50V C555 1-169-094-11 ELECT 10µF 20% 50V C1427 1-163-291-11 CERAMIC CHIP 0.01µF 10% 50V C557 1-163-009-11 CERAMIC CHIP 0.001µF 10% 50V C1428 1-163-009-11 CERAMIC CHIP 0.01µF 10% 50V C559 1-164-004-11 CERAMIC CHIP 0.1µF 10% 25V C1429 1-163-09-91 CERAMIC CHIP 0.01µF 10% 50V C602 Δ-1-107-564-11 FILM 0.22µF 20% 300V C1439 1-115-393-91 CERAMIC CHIP 0.1µF 10% 50V C605 Δ-1							04400	4 400 000 44	0504440 0140		400/	-au
C552 1-137-401-11 FILM 0.22μF 10% 100V C1422 1-163-259-91 CERAMIC CHIP 100PF 5% 50V C1424 1-163-099-11 CERAMIC CHIP 20PF 5% 50V C1424 1-163-269-91 CERAMIC CHIP 20PF 5% 50V C1425 1-163-099-11 CERAMIC CHIP 20PF 5% 50V C1425 1-163-099-11 CERAMIC CHIP 2.0PF 10% 50V C1425 1-163-099-11 CERAMIC CHIP 0.001μF 10% 50V C1425 1-163-099-11 CERAMIC CHIP 0.001μF 10% 50V C1425 1-163-099-11 CERAMIC CHIP 0.001μF 10% 50V C1427 1-163-099-11 CERAMIC CHIP 0.001μF 10% 50V C1428 1-163-099-11 CERAMIC CHIP 0.001μF 10% 50V C1429 1-163-099-11 CERAMIC CHIP 0.001μF 10% 50V C1430 1-115-339-11 CERAMIC CHIP 0.001μF 10% 50V C1431 1-115-339-11 CERAMIC CHIP 0.1μF 10% 50V C1431 1-115-339-11 CERAMIC CHIP 0.1μF 10% 50V C1434 1-113-912-51 CERAMIC 0.0047μF 20% 250V C1433 1-115-339-11 CERAMIC CHIP 0.1μF 10% 50V C1434 1-113-912-51 CERAMIC 0.0047μF 20% 250V C1433 1-115-339-11 CERAMIC CHIP 0.1μF 10% 50V C1434 1-113-912-51 CERAMIC 0.0047μF 20% 250V C1433 1-115-339-11 CERAMIC CHIP 0.1μF 10% 50V C1434 1-115-385-91 CERAMIC CHIP 0.002μF 20% 250V C1439 1-163-259-91 CERAMIC CHIP 2.0PF 5% 50V C1449 1-163-259-91												
C553 1-107-905-11 ELECT 4.7µF 20% 50V C1424 1-102-129-00 CERAMIC CHIP 220FF 5% 50V C555 1-126-964-11 ELECT 10µF 20% 50V C1425 1-163-309-11 CERAMIC CHIP 0.01µF 10% 50V C555 1-126-964-11 ELECT 10µF 20% 50V C1427 1-163-309-11 CERAMIC CHIP 0.001µF 10% 50V C557 1-163-009-11 CERAMIC CHIP 0.001µF 10% 50V C1428 1-163-009-11 CERAMIC CHIP 0.001µF 10% 50V C1428 1-163-009-11 CERAMIC CHIP 0.001µF 10% 50V C1429 1-163-009-11 CERAMIC CHIP 0.001µF 10% 50V C1429 1-163-009-11 CERAMIC CHIP 0.001µF 10% 50V C1429 1-163-009-11 CERAMIC CHIP 0.01µF 10% 50V C1429 1-163-009-11 CERAMIC CHIP 0.01µF 10% 50V C1429 1-163-209-11 CERAMIC CHIP 0.01µF 10% 50V C1429 1-163-209-11 CERAMIC CHIP 0.01µF 10% 50V C1429 1-163-209-11 CERAMIC CHIP 0.1µF 10% 50V C1429 1-163-209-11 CERAMIC CHIP 0.1µF 10% 50V C1429 1-163-209-11 CERAMIC CHIP 0.1µF 10% 50V C1430 1-115-339-11 C				•						•		
C553	C552	1-137-401-1	1 FILM	0.22μF	10%	100V						
C554 1-183-009-11 CERAMIC CHIP 0.001μF 10% 50V C555 1-126-964-11 ELECT 10µF 20% 50V C1425 1-115-339-11 CERAMIC CHIP 0.01µF 10% 50V C557 1-163-009-11 CERAMIC CHIP 0.001µF 10% 50V C1428 1-163-009-11 CERAMIC CHIP 0.001µF 10% 50V C559 1-164-004-11 CERAMIC CHIP 0.1µF 10% 25V C1429 1-163-009-11 CERAMIC CHIP 0.01µF 10% 50V C602 Δ1-107-564-11 FILM 0.22µF 20% 300V C1430 1-115-339-11 CERAMIC CHIP 0.1µF 10% 50V C603 Δ1-107-564-11 FILM 0.22µF 20% 300V C1431 1-115-339-11 CERAMIC CHIP 0.1µF 10% 50V C603 Δ1-107-564-11 FILM 0.22µF 20% 250V C1432 1-115-339-11 CERAMIC CHIP 0.1µF 10% 50V C604 Δ1-113-912-51 CERAMIC 0.0047µF 20% 250V C1432 1-115-339-11 CERAMIC CHIP 0.1µF 10% 50V C606 Δ1-113-912-51 CERAMIC 0.0047µF 20%							C1423	1-163-259-91	CERAMIC CHIP	220PF	5%	50V
C555 1-126-964-11 ELECT 10µF 20% 50V C1425 1-115-339-11 CERAMIC CHIP 0.1µF 10% 50V C557 1-163-009-11 CERAMIC CHIP 0.001µF 10% 50V C1428 1-163-009-11 CERAMIC CHIP 0.001µF 10% 50V C1428 1-163-009-11 CERAMIC CHIP 0.001µF 10% 50V C1429 1-163-239-11 CERAMIC CHIP 0.01µF 10% 50V C1429 1-163-239-11 CERAMIC CHIP 0.01µF 10% 50V C1429 1-163-239-11 CERAMIC CHIP 0.001µF 10% 50V C142	C553	1-107-905-1	1 ELECT	4.7μF	20%	50V	C1424	1-102-129-00	CERAMIC	0.01μF	10%	50V
C556 1-126-964-11 ELECT 10μF 20% 50V C1428 1-163-009-11 CERAMIC CHIP 0.001μF 10% 50V C1428 1-163-009-11 CERAMIC CHIP 0.001μF 10% 50V C1429 1-163-009-11 CERAMIC CHIP 0.01μF 10% 50V C1429 1-163-009-11 CERAMIC CHIP 0.01μF 10% 50V C1429 1-163-009-11 CERAMIC CHIP 0.01μF 10% 50V C1430 1-115-339-11 CERAMIC CHIP 0.1μF 10% 50V C1430 1-113-912-51 CERAMIC 0.0047μF 20% 250V C1433 1-115-339-11 CERAMIC CHIP 0.1μF 10% 50V C1430 1-113-912-51 CERAMIC 0.0047μF 20% 400V C1435 1-115-339-11 CERAMIC CHIP 0.1μF 10% 50V C1430 1-136-064-00 FILM 0.002μF 20% 400V C1436 1-115-339-11 CERAMIC CHIP 0.1μF 10% 50V C1430 1-136-064-00 FILM 0.002μF 3% 2KV C1437 1-163-259-91 CERAMIC CHIP 20PF 5% 50V C1439 1-163-259-91 CERAMIC CHIP 20PF 5% 50V C1439 1-163-259-91 CERAMIC CHIP 20PF 5% 50V C1439 1-163-259-91 CERAMIC CHIP 20PF 5% 50V C1430 1-137-484-11 FILM 0.07μF 10% 630V C1441 1-163-259-91 CERAMIC CHIP 20PF 5% 50V C1443 1-115-338-91 CERAMIC CHIP 20PF 5% 50V C1443 1-115-339-11 CERAMIC CHIP 20PF 5% 50V C1445 1-107-364-11 FILM	C554	1-163-009-1	1 CERAMIC CHIP	0.001μF	10%	50V						
C556 1-126-964-11 ELECT 10µF 20% 50V C1428 1-163-009-11 CERAMIC CHIP 0.001µF 10% 50V C1429 1-163-009-11 CERAMIC CHIP 0.01µF 10% 50V C1429 1-163-009-11 CERAMIC CHIP 0.01µF 10% 50V C1429 1-163-009-11 CERAMIC CHIP 0.01µF 10% 50V C1429 1-163-009-11 CERAMIC CHIP 0.1µF 10% 50V C1430 1-115-339-11 CERAMIC CHIP 0.1µF 10% 50V C1430 1-139-064-00 FILM 0.002µF 20% 400V C1436 1-115-339-11 CERAMIC CHIP 0.1µF 10% 50V C1430 1-126-970-11 ELECT 30µF 20% 50V C1430 1-163-259-91 CERAMIC CHIP 220PF 5% 50V C1430 1-15-385-91 CERAMIC 0.0022µF 20% 125V C1440 1-163-259-91 CERAMIC CHIP 0.1µF 10% 50V C1440 1-163-259-91 CERAMIC CHIP 220PF 5% 50V C1440 1-163-259-91 CERAMIC CHIP 0.1µF 10% 50V C1440 1-163-259-91 CERAMIC CHIP 220PF 5% 50V	C555	1-126-964-1	1 ELECT	10μF	20%	50V	C1425	1-115-339-11	CERAMIC CHIP	0.1μF	10%	50V
C557 1-163-009-11 CERAMIC CHIP 0.001μF 10% 50V C1428 1-163-009-11 CERAMIC CHIP 0.001μF 10% 50V C559 1-164-004-11 CERAMIC CHIP 0.1μF 10% 25V C601	C556	1-126-964-1	1 ELECT	10uF	20%	50V	C1427	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C559 1-164-004-11 CERAMIC CHIP 0.1μF 10% 25V C601 Δ.1-107-564-11 FILM 0.22μF 20% 300V C602 Δ.1-107-564-11 FILM 0.22μF 20% 300V C603 Δ.1-113-912-51 CERAMIC 0.0047μF 20% 250V C1432 1-115-339-11 CERAMIC CHIP 0.1μF 10% 50V C603 Δ.1-113-912-51 CERAMIC 0.0047μF 20% 250V C1432 1-115-339-11 CERAMIC CHIP 0.1μF 10% 50V C605 Δ.1-113-912-51 CERAMIC 0.0047μF 20% 250V C1432 1-115-339-11 CERAMIC CHIP 0.1μF 10% 50V C606 Δ.1-113-912-51 CERAMIC 0.0047μF 20% 250V C1432 1-115-339-11 CERAMIC CHIP 0.1μF 10% 50V C606 Δ.1-113-912-51 CERAMIC 0.0047μF 20% 250V C606 Δ.1-113-608-11 ELECT(BLOCK) 470μF 20% 250V C609 1-136-064-00 FILM 0.002μF 3% 2KV C1437 1-163-259-91 CERAMIC CHIP 0.1μF 10% 50V C610 1-126-970-11 ELECT 330μF 20% 50V C1438 1-163-259-91 CERAMIC CHIP 2.0PF 5% 50V C612 1-107-911-11 ELECT 220μF 20% 50V C1438 1-163-259-91 CERAMIC CHIP 220PF 5% 50V C612 1-107-911-11 ELECT 220μF 20% 50V C1430 1-163-259-91 CERAMIC CHIP 220PF 5% 50V C616 Δ.1-115-335-91 CERAMIC 0.0022μF 20% 125V C616 Δ.1-115-335-91 CERAMIC 0.0022μF 20% 125V C6144 1-163-235-11 CERAMIC CHIP 0.1μF 10% 50V C616 Δ.1-115-335-91 CERAMIC 0.0022μF 20% 125V C6144 1-115-335-91 CERAMIC CHIP 220PF 5% 50V C652 1-107-914-11 ELECT 1000μF 20% 25V C1440 1-163-235-11 CERAMIC CHIP 220PF 5% 50V C653 1-107-994-11 ELECT 1000μF 20% 25V C1440 1-163-235-11 CERAMIC CHIP 220PF 5% 50V C653 1-107-994-11 ELECT 3300μF 20% 125V C654 1-107-364-11 FILM 0.01μF 10% 20V C655 1-107-994-11 ELECT 3300μF 20% 25V C1450 1-163-259-91 CERAMIC CHIP 220PF 5% 50V C655 1-107-994-11 ELECT 3300μF 20% 25V C1450 1-163-259-91 CERAMIC CHIP 220PF 5% 50V C655 1-107-994-11 ELECT 300μF 20% 50V C1450 1-163-259-91 CERAMIC CHIP 220PF 5% 50V C655 1-107-994-11 ELECT 300μF 20% 50V C1450 1-163-259-91 CERAMIC CHIP 220PF 5% 50V C655 1-163-251-11 CERAMIC CHIP 100PF 5% 50V C1450 1-163-209-11 CERAMIC CHIP 0.01μF 10% 50V C655 1-163-251-11 CERAMIC CHIP 100PF 5% 50V C1450 1-163-209-11 CERAMIC CHIP 0.001μF										•		
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C610 1-126-970-11 ELECT 330μF 20% 50V C1438 1-163-259-91 CERAMIC CHIP 220FF 5% 50V C1439 1-163-259-91 CERAMIC CHIP 220FF 5% 50V C1439 1-163-259-91 CERAMIC CHIP 220FF 5% 50V C1439 1-163-259-91 CERAMIC CHIP 220FF 5% 50V C1440 1-163-259-91 CERAMIC CHIP 220FF 5% 50V C612 1-107-911-11 ELECT 220μF 20% 50V C613 1-137-484-11 FILM 0.47μF 10% 630V C1441 1-163-235-11 CERAMIC CHIP 220FF 5% 50V C615 Δ 1-107-564-11 FILM 0.22μF 20% 300V C1442 1-163-259-91 CERAMIC CHIP 220FF 5% 50V C1446 1-163-29-91 CERAMIC CHIP 220FF 5% 50V C1446 1-163-021-91 CERAMIC CHIP 0.1μF 10% 50V C1446 1-163-021-91 CERAMIC CHIP 0.01μF 10% 50V C1446 1-163-021-91 CERAMIC CHIP 22PF 5% 50V C1446 1-163-021-91 CERAMIC CHIP 22PF 5% 50V C1447 1-163-235-11 CERAMIC CHIP 22PF 5% 50V C1447 1-163-235-11 CERAMIC CHIP 22PF 5% 50V C1447 1-163-235-11 CERAMIC CHIP 22PF 5% 50V C1448 1-163-235-11 CERAMIC CHIP 22PF 5% 50V C1449 1-163-259-91 CERAMIC CHIP 22PF 5% 50V C1450 1-107-914-11 ELECT 1000μF 20% 25V C1450 1-163-259-91 CERAMIC CHIP 22PF 5% 50V C1451 1-102-514-11 CERAMIC CHIP 0.1μF 10% 50V C1451 1-102-514-11 CERAMIC CHIP 0.1μF 10% 50V C1451 1-102-514-11 CERAMIC CHIP 0.01μF 5% 50V C1451 1-103-810-00 CERAMIC 100PF 5% 50V C1451 1-103-810-00 CERAMIC 100PF 5% 50V C1454 1-101-810-00 CERAMIC 100PF 5% 50V C1455 1-163-009-11 CERAMIC CHIP 0.001μF 10% 50V C1455	C609	1-136-064-0	0 FILM	0.002μF	3%	2KV	C1437	1-163-259-91	CERAMIC CHIP	220PF	5%	50V
C1439 1-163-259-91 CERAMIC CHIP 220FF 5% 50V C612 1-107-911-11 ELECT 220μF 20% 50V C613 1-137-484-11 FILM 0.47μF 10% 630V C616 Δ1-107-564-11 FILM 0.22μF 20% 300V C616 Δ1-115-385-91 CERAMIC 0.0022μF 20% 125V C617 Δ1-115-385-91 CERAMIC 0.0022μF 20% 125V C618 Δ1-115-385-91 CERAMIC 0.0022μF 20% 125V C619 Δ1-115-385-91 CERAMIC 0.0022μF 20% 125V C651 1-117-791-11 ELECT (BLOCK) 1000μF 20% 160V C652 1-107-914-11 ELECT 1000μF 20% 25V C653 1-107-891-11 ELECT 3300μF 20% 25V C654 1-107-364-11 FILM 0.01μF 10% 200V C655 1-126-964-11 ELECT 10μF 20% 50V C657 1-163-251-11 CERAMIC CHIP 100PF 5% 50V C658 1-162-131-11 CERAMIC CHIP 100PF 5% 50V C658 1-162-131-11 CERAMIC CHIP 100PF 5% 50V C658 1-162-131-11 CERAMIC CHIP 100PF 5% 50V C1451 1-101-810-00 CERAMIC 100PF 5% 500✓ C1455 1-163-009-11 CERAMIC CHIP 0.001μF 10% 50V C1455 1-163-009-11 CERAMIC CHIP 0.001μF 10% 50V												
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C616 Δ 1-115-385-91 CERAMIC				•								
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C618 Δ 1-115-385-91 CERAMIC 0.0022μF 20% 125V C619 Δ 1-115-385-91 CERAMIC 0.0022μF 20% 125V C651 1-117-791-11 ELECT(BLOCK) 1000μF 20% 160V C652 1-107-914-11 ELECT 1000μF 20% 25V C653 1-107-891-11 ELECT 3300μF 20% 25V C654 1-107-364-11 FILM 0.01μF 10% 200V C655 1-126-964-11 ELECT 10μF 20% 50V C657 1-163-251-11 CERAMIC CHIP 100PF 5% 50V C658 1-163-251-11 CERAMIC CHIP 0.01μF 10% 200V C658 1-163-251-11 CERAMIC CHIP 100PF 5% 50V C1451 1-163-259-91 CERAMIC CHIP 0.1μF 10% 50V C1452 1-115-339-11 CERAMIC CHIP 0.1μF 10% 50V C1453 1-101-810-00 CERAMIC 100PF 5% 500✓ C1454 1-101-810-00 CERAMIC 100PF 5% 500✓ C1455 1-163-009-11 CERAMIC CHIP 0.001μF 10% 50V	_		. 1							•		
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C619 Δ 1-115-385-91 CERAMIC 0.0022μF 20% 125V C1448 1-163-235-11 CERAMIC CHIP 22PF 5% 50V C651 1-117-791-11 ELECT (BLOCK) 1000μF 20% 160V C1449 1-163-259-91 CERAMIC CHIP 220PF 5% 50V C1450 1-163-259-91 CERAMIC CHIP 220PF 5% 50V C1451 1-102-514-11 CERAMIC CHIP 220PF 5% 50V C1451 1-102-514-11 CERAMIC CHIP 220PF 5% 50V C1451 1-102-514-11 CERAMIC CHIP 0.1μF 10% 50V C654 1-107-364-11 FILM 0.01μF 10% 200V C655 1-126-964-11 ELECT 10μF 20% 50V C1453 1-101-810-00 CERAMIC 100PF 5% 500V C657 1-163-251-11 CERAMIC CHIP 100PF 5% 50V C1454 1-101-810-00 CERAMIC 100PF 5% 500V C658 1-162-131-11 CERAMIC 220PF 10% 2KV C1455 1-163-009-11 CERAMIC CHIP 0.001μF 10% 50V	C618	∆ 1-115-385-9	1 CERAMIC	0.0022μF	20%	125V						
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C652 1-107-914-11 ELECT 1000μF 20% 25V C1450 1-163-259-91 CERAMIC CHIP 220PF 5% 50V C1451 1-102-514-11 CERAMIC 22PF 5% 50V C1451 1-102-514-11 CERAMIC CHIP 0.1μF 10% 50V C1452 1-115-339-11 CERAMIC CHIP 0.1μF 10% 50V C1452 1-115-339-11 CERAMIC CHIP 0.1μF 10% 50V C1453 1-101-810-00 CERAMIC 100PF 5% 500 C1453 1-101-810-00 CERAMIC 100PF 5% 500 C1454 1-101-810-00 CERAMIC 100PF 5% 500 C1454 1-101-810-00 CERAMIC 100PF 5% 500 C1455 1-163-251-11 CERAMIC CHIP 0.001μF 10% 50V C1455 1-163-009-11 CERAMIC CHIP 0.001μF 10% 50V						1						
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C1456 1-163-009-11 CERAMIC CHIP 0.001μF 10% 50V	C658	1-162-131-1	1 CERAMIC	220PF	10%	2KV						
							C1456	1-163-009-11	CERAMIC CHIP	0.001μF	10%	50V



Ref.No.	Part No.	Description	R	emark	Ref.No	. Part No.	Description		Remark
C1457	1-163-245-1	1 CERAMIC CHIP 56PF	5%	50V	D103 D201		DIODE EL1Z DIODE MTZJ-T-72-6.2C		
01450	4 400 050 0	A CERAMIC CHIR SOORE	5%	50V	D301		DIODE RD5.1ESB2		
C1458		1 CERAMIC CHIP 220PF	5% 5%	50V 50V	D301	0-7 13-103-03	DIODE NOS.12002		
C1459		1 CERAMIC CHIP 22PF			D302	0.710-202-43	DIODE EL1Z		
C1460		1 CERAMIC CHIP 22PF	5%	50V					
C1461		1 CERAMIC CHIP 220PF	5%	50V	D351		DIODE DAN202K		
C1462	1-163-251-1	1 CERAMIC CHIP 100PF	5%	50V	D352		DIODE DAN202K		
					D353		DIODE DAN202K		
C1463		1 CERAMIC CHIP 100PF	5%	50V	D501	8-719-945-80	DIODE ERC06-15S		
C1464		1 CERAMIC CHIP 0.1μF		50V					
C1465	1-115-339-1	1 CERAMIC CHIP 0.1μF		50V	D502		DIODE EGP20G		
C1466	1-115-339-1	1 CERAMIC CHIP 0.1μF		50V	D503	8-719-908-03	DIODE GP08D		
C1467	1-163-021-9	1 CERAMIC CHIP 0.01µF	10%	50V	D504	8-719-908-03	DIODE GP08D		
					D506	8-719-302-43	DIODE EL1Z		
C1468	1-101-810-0	0 CERAMIC 100PF	5%	500V	D507	8-719-302-43	DIODE EL1Z		
C1469	1-163-021-9	91 CERAMIC CHIP 0.01μF	10%	50V					
C1471	1-163-009-1	1 CERAMIC CHIP 0.001μF	10%	50V	D508	8-719-302-43	DIODE EL1Z		
C1475	1-163-235-1	1 CERAMIC CHIP 22PF	5%	50V	D509	8-719-028-72	DIODE RGP02-17EL-6433		
C1476		1 CERAMIC CHIP 22PF	5%	50V	D510	1-249-377-11	CARBON 0.47	5%	1/4W F
01470	1 100 200	., 02,0,0,0	• / •		D511	8-719-914-43	DIODE DAN202K		
C1477	1-163-235-1	11 CERAMIC CHIP 22PF	5%	50V	D551		DIODE GP08D		
C1478		11 CERAMIC CHIP 22PF	5%	50V					
C1478		11 CERAMIC CHIP 100PF	5%	50V	D552	8-719-109-85	DIODE RD5.1ESB2		
		11 CERAMIC CHIP 0.001µF		50V			DIODE GBU4JL-6088		
C1481		· · · · · · · · · · · · · · · · · · ·	5%	50V	D605		DIODE CLIZ		
C1483	1-163-259-8	91 CERAMIC CHIP 220PF	376	30 V	D605		DIODE MTZJ-7.5B		
04404	4 400 000	A CERANIC CUID 10DE	E0/	50V	D607		DIODE EL1Z		
C1484		11 CERAMIC CHIP 12PF	5%		D007	0-719-302-43	DIODE LETZ		
C1485		11 CERAMIC CHIP 12PF	5%	50V	DCOO	0.740.000.40	DIODE EL 17		
C1486		11 CERAMIC CHIP 100PF	5%	50V	D609		DIODE EL1Z		
C1487		11 CERAMIC CHIP 0.001μF		50V	D610		DIODE EL1Z		
C1488	1-163-235-1	11 CERAMIC CHIP 22PF	5%	50V	D611		DIODE 1SS133T-77		
					D651		DIODE RU4AM-T3		
C1601	△ 1-801-267-	I1 VARISTOR TNR10V 431F	660		D653	8-719-045-48	DIODE FML-G12S		
	<connec< th=""><th>TOR></th><th></th><th></th><th>D656</th><th>8-719-046-66</th><th>DIODE SLR-56MC3F</th><th></th><th></th></connec<>	TOR>			D656	8-719-046-66	DIODE SLR-56MC3F		
ONOE4	* 1 504 500 :	14 DILLO COMMECTOR ED				<fuse></fuse>			
		11 PLUG, CONNECTOR 5P	O DO 4 F	2D 40D		CFU3E>			
		11 CONNECTOR, BOARD TO	O BOAR	10 12F	E604	A 1 576 001 11	FUSE (H.B.C.) (4A/250V)		
		11 PLUG, CONNECTOR 3P					FUSE (4A/250V) (PVM-14N	EMDE	=\
		11 PLUG, CONNECTOR 6P					FUSE, GLASS TUBE (3.15/		
CN401	* 1-564-509-	11 PLUG, CONNECTOR 6P			1001	<u>//</u> \(\) 1-532-745-11	FUSE, GLASS TUBE (3.15)	V 125	v)
CN402	* 1-564-510-	11 PLUG, CONNECTOR 7P (except SSM-14N5A	VE/U. 2	0N5A/E/U)		<ferrite b<="" td=""><td>EAD></td><td></td><td></td></ferrite>	EAD>		
CN403	* 1-564-510-	11 PLUG, CONNECTOR 7P							
		cept PVM-14N5A/E/U, 14N5		0N5A/E/U)			FERRITE 1.1µH		
		11 CONNECTOR PIN (DY) 6			FB601		FERRITE 0.45μH		
CN502	* 1-508-768-0	00 PIN, CONNECTOR (5mm	PITCH) 6P	FB602		FERRITE 0.45μH		
CN601	* 1-580-843-	11 PIN, CONNECTOR (POW	/ER)		FB603		FERRITE 0.45μH		
					JW390	1-543-840-11	FERRITE 0μH		
_		00 PIN, CONNECTOR (5mm	PITCH;) 3P					
CN651	1-695-915-	11 TAB (CONTACT)				.10-			
						<ic></ic>			
	<compos< td=""><td>ITION CIRCUIT BLOCK></td><td></td><td></td><td>IC001 IC002</td><td></td><td>IC CXP85116B-670S IC M24C01-BN6</td><td></td><td></td></compos<>	ITION CIRCUIT BLOCK>			IC001 IC002		IC CXP85116B-670S IC M24C01-BN6		
CP301	1-467-554-	21 FILTER BLOCK, COMB			IC003		IC MM1096BD		
C 301	1 407 334 7	er richert bedort, domb			IC201		IC TDA7052A		
					IC301		BIC CXA2060BS		
	<diode></diode>				,5001	5 7 52-500-5C	0.000000		
	<0100E>				IC401	8-759-000-49	B IC MC14052BCP		
D004	0.710.014	13 DIODE DANSOSK			,0401	0 / 39-000-40	(except SSM-14N5A/	F/II 2	ON54/E/LIV
D001		43 DIODE DAN202K			IC402	8-750-084 04	(except 33M-14N3A/) S IC BA7604N	_, _, _	.5.40/44/0)
D002		43 DIODE DAN202K			10402	0-133-304-30	(except SSM-14N5A/	=// 1 0	ONEA/E/IN
D003		43 DIODE DAN202K			ICEE4	Q_750 100 71	•	_, _, _	.UI137VE/U)
D004		43 DIODE DAN202K			IC551		I IC STV9379		
D005	გ-/19-914-	43 DIODE DAN202K			IC552		BIC µPC4558C		
-101	0.740.044	40 DIODE DANIOOS			IC601	0-749-010-84	IC STR-S6708		
D101		43 DIODE DAN202K			ICCE1	0.740.004.00	IC SE115N		
D102	₩ 0-7 19-983-	38 DIODE MTZJ-T-77-36B			IC651	8-749-921-89	, IO SETTON		



Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	1		Remark
IC652	8-759-231-5	3 IC TA7805S		Q365	8-729-026-48	TRANSISTO	R 2SA1037A	K-T146	-O
IC654		59 IC NJM78M09FA		Q401	8-729-120-28				
10004	0 700 701 0	,	:	Q402	8-729-120-28				
				Q403	8-729-120-28				
	<chip con<="" td=""><td>IDUCTOR></td><td></td><td>Q403</td><td>0-729-120-20</td><td>THANSISTO</td><td>n 230 1023-L</td><td>JLO</td><td></td></chip>	IDUCTOR>		Q403	0-729-120-20	THANSISTO	n 230 1023-L	JLO	
	VOI III OOI	100010112		Q404	8-729-120-28	TRANSISTO	R 2SC1623-L	.5L6	
JR001	1-216-295-9	91 SHORT 0		Q405	8-729-120-28	and the second second			
JR002	1-216-295-9			Q501	8-729-810-49				-CA
JR003	1-216-295-9			Q 001	0 720 010 40	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1120210770		nch model)
JR004	1-216-295-9			Q501	8-729-821-87	TRANSISTO	R 25D1878-C	•	ion modely
JR005	1-216-295-9			Q301	0-123-021-01	THANSISTO	11 230 1070-0		nch model)
JH003	1-210-255-3	T SHORT		Q502	8-729-140-50	TRANSISTO	B 25C3200LK	•	ich model)
JR006	1-216-295-9	91 SHORT 0	į	QUUL	0 720 140 00	111/11/01010	71 200020021	`	
JR007	1-216-295-9			Q551	8-729-019-01	TRANSISTO	B 25D2304-E	Ε.	
JR008	1-216-295-9			Q601	8-729-025-04			.•	
JR009	1-216-295-9			Q001	0 720 020 04	THAINGIGTO	112000027		
JR010	1-216-295-9								
JACIO	1-210-293-3	71 3HON1 0			<resistor></resistor>				
					KNESIS I UNZ	•			
	<coil></coil>			R001	1-216-073-00	DES CHID	10K	5%	1/10W
	COOILS			R002	1-216-073-00	-,-	10K	5%	1/10W
L001	1 400 000 0	31 INDUCTOR 10uH		R003	1-216-073-00	•	10K	5%	1/10 W
				R004					1/10 W
L101)O COIL, FERRITE CHOKE 68μΗ OO COIL, FERRITE CHOKE 68μΗ		R004 R005	1-216-073-00 1-216-073-00		10K 10K	5%	
L501		· · · · · · · · · · · · · · · · · · ·		HUUS	1-210-073-00	nes,unip	IUK	5%	1/10W
		21 COIL 2.7µH		Booc	4 040 070 00	חבר פניים	1016	E0/	4 /4 03 61
L503	1-412-553-1	11 INDUCTOR 3.3mH	İ	R006	1-216-073-00		10K	5%	1/10W
1.504	4 450 404 6	S COUL MITH CODE		R007	1-216-073-00	•	10K	5%	1/10W
L504		00 COIL, WITH CORE	_,	R008	1-216-073-00		10K	5%	1/10W
L505	₾ 1-459-760-1	13 COIL, HORIZONTAL LINEARI	I	R009	1-216-073-00		10K	5%	1/10W
		•	14inch model)	R010	1-216-073-00	RES,CHIP	10K	5%	1/10 W
L505 /	∆ 1-459-769-1	13 COIL, HORIZONTAL LINEARI		5044		555 61 115	4014	50 /	4 (4 15 4 2
		•	20inch model)	R011	1-216-073-00		10K	5%	1/10W
L510		00 COIL,CHOKE		R012	1-216-073-00	•	10K	5%	1/10W
L551	1-459-104-0	00 COIL, WITH CORE		R013	1-216-073-00		10K	5%	1/10W
				R014	1-216-073-00		10K	5%	1/10 W
L601	1-411-541-1	I1 COIL, CHOKE 7.2μΗ		R015	1-216-073-00	RES,CHIP	10K	5%	1/10 W
			İ	R016	1-216-073-00	•	10K	5%	1/10W
	<photo c<="" td=""><td>OUPLER></td><td></td><td>R017</td><td>1-216-073-00</td><td>•</td><td>10K</td><td>5%</td><td>1/10W</td></photo>	OUPLER>		R017	1-216-073-00	•	10K	5%	1/10W
				R018	1-216-073-00	•	10K	5%	1/10W
PH601	8-749-923-5	50 PHOTO COUPLER PC111YS		R019	1-216-073-00		10K	5%	1/10W
				R020	1-216-073-00	RES,CHIP	10K	5%	1/10 W
		· ·		5004		n=0 0: !!n	4014	===	
	<transis< td=""><td>TOR></td><td></td><td>R021</td><td>1-216-073-00</td><td>,</td><td>10K</td><td>5%</td><td>1/10W</td></transis<>	TOR>		R021	1-216-073-00	,	10K	5%	1/10 W
				R022	1-216-025-00		100	5%	1/10 W
Q004		28 TRANSISTOR 2SC1623-L5L6		R023	1-216-073-00	•	10K	5%	1/10
Q005		28 TRANSISTOR 2SC1623-L5L6		R024	1-249-393-11	CARBON	10	5%	1/4W
Q101		17 TRANSISTOR 2SA1091-O						•	14N5M DE)
Q102		28 TRANSISTOR 2SC1623-L5L6		R025	1-216-073-00	RES,CHIP	10K	5%	1/10 V V
Q201	8-729-019-0	1 TRANSISTOR 2SD2394-EF	*						
				R027	1-216-073-00	RES,CHIP	10K	5%	1/10 V V
Q301	8-729-120-2	28 TRANSISTOR 2SC1623-L5L6		R028	1-249-393-11	CARBON	10	5%	1/4\
Q302	8-729-120-2	28 TRANSISTOR 2SC1623-L5L6						(20ir	nch mo∙del)
Q351	8-729-120-2	28 TRANSISTOR 2SC1623-L5L6		R029	1-216-073-00		10K	5%	1/10
Q352	8-729-026-4	18 TRANSISTOR 2SA1037AK-T1	46-Q	R030	1-249-393-11	CARBON	10	5%	1/4\
Q353	8-729-120-2	28 TRANSISTOR 2SC1623-L5L6					(PVM-14N6A	/E/U, 2	ON6AE/U)
				R031	1-216-073-00	RES,CHIP	10K	5%	1/1(V V
Q354	8-729-026-4	18 TRANSISTOR 2SA1037AK-T1	46-Q						
Q355	8-729-120-2	28 TRANSISTOR 2SC1623-L5L6		R032	1-249-393-11	CARBON	10	5%	1/4\
Q356	8-729-026-4	18 TRANSISTOR 2SA1037AK-T1	46-Q			(excep	t SSM-14N5A	/E/U, 2	ON5AE/U)
Q357	8-729-120-2	28 TRANSISTOR 2SC1623-L5L6		R033	1-216-073-00	RES,CHIP	10 K	5%	1/10
Q358		28 TRANSISTOR 2SC1623-L5L6		R035	1-216-295-91	SHORT	0		
	_			R036	1-216-025-91		100	5%	1/1(1/1/
Q359	8-729-120-2	28 TRANSISTOR 2SC1623-L5L6		R037	1-216-025-91	•	100	5%	1/10//
Q360		28 TRANSISTOR 2SC1623-L5L6		**			_		**
Q361		28 TRANSISTOR 2SC1623-L5L6		R038	1-216-025-91	RES,CHIP	100	5%	1/1(\
Q362		28 TRANSISTOR 2SC1623-L5L6		R039	1-216-025-91	•	100	5%	1/1(/ V
Q363		28 TRANSISTOR 2SC1623-L5L6		R040	1-216-073-00	•	10K	5%	1/10//
				R041	1-216-073-00		10K	5%	1/10/V
Q364	8-729-120-2	28 TRANSISTOR 2SC1623-L5L6		R042	1-216-025-00		100	5%	1/10/
			1			- ,	-		



Ref.No.	Part No.	Description		R	emark	Ref.No.	Part No.	Description			Remark
R043	1-216-025-0	0 RES,CHIP	100	5%	1/10W	R325	1-216-075-00	RES,CHIP	12K	5%	1/10W
R044		0 RES,CHIP	10K	5%	1/10W			•		(14ir	nch model)
			1K	5%	1/10W					\	,
R045		1 RES,CHIP			I	Dooe	1 016 050 00	DEC CHID	2.7K	5%	1/10W
R057		0 RES,CHIP	10K	5%	1/10W	R326	1-216-059-00	HES,CHIP	2./K		
R058	1-216-073-0	0 RES,CHIP	10K	5%	1/10W					•	nch model)
						R326	1-216-063-91	RES,CHIP	3.9K	5%	1/10W
R059	1-216-073-0	0 RES,CHIP	10K	5%	1/10W					(14ir	nch model)
R060		0 RES,CHIP	10K	5%	1/10W	R327	1-216-097-91	RES.CHIP	100K	5%	1/10W
		·	1010	1.259		R328	1-216-073-00		10K	5%	1/10W
R101	1-210-390-1	1 METAL OXIDE				R329	1-216-001-00		10	5%	1/10W
				•	nch model)	M329	1-210-001-00	HES,OI IIF	10	J /0	171044
R101	1-216-391-1	1 METAL OXIDE	1.5	5%	3W F						4 (4 0) 44
				(14ir	nch model)	R330	1-216-025-91	RES,CHIP	100	5%	1/10W
R102	1-216-667-1	1 METAL CHIP	4.7K	0.509	%1/10W	R331	1-216-033-00	RES, CHIP	220	5%	1/10W
						R332	1-216-073-00	RES.CHIP	10K	5%	1/10W
D102	1 016 115 0	0 RES,CHIP	560K	5%	1/10W	R333	1-216-025-91		100	5%	1/10W
R103					%1/10W	R351	1-216-670-11		6.2K		%1/10W
R104		1 METAL CHIP	120K		- 1	LODI	1-210-070-11	MILIAL OITH	0.211		
R105		1 METAL CHIP	150K		%1/10W					(1411	nch model)
R106	1-216-097-9	1 RES,CHIP	100K	5%	1/10W						
R107	1-216-097-9	1 RES,CHIP	100K	5%	1/10W	R351	1-216-679-11	METAL CHIP	15K	0.50	%1/10W
										(20ii	nch model)
D100	A 4 010 7EC 0	1 METAL CHIP	150K	0.509	%1/10W	R352	1-216-049-91	BES CHIP	1K	5%	1/10W
R108	∆∆ 1-210-750-8	I METAL CHIE	1501			R353	1-249-393-11		10	5%	1/4W
				•	nch model)					5%	1/4W
R108	△ 1-218-758-9	1 METAL CHIP	180K		%1/10W	R354	1-249-393-11		10		
				(14ir	nch model)	R355	1-249-393-11	CARBON	10	5%	1/4W
R110	↑ 1-218-768-9	1 METAL CHIP	470K	0.509	%1/10W						
				(14ir	nch model)	R356	1-216-059-00	RES,CHIP	2.7K	5%	1/10W
D110	A 1-219-760-0	1 METAL CHIP	510K	•	%1/10W	R357	1-216-638-11	METAL CHIP	300	0.50	%1/10W
HIIU	ZZ 1-210-703-3	I WILIAL OI III	31010		1	11007	1 210 000 11				nch model)
			0014	•	nch model)	D057	4 040 044 44	METAL CUID	390	V .	%1/10W
R201	1-216-093-0	0 RES,CHIP	68K	5%	1/10 W	R357	1-216-641-11	METAL CHIP	390		
										•	nch model)
R202	1-216-069-0	0 RES,CHIP	6.8K	5%	1/10W	R358	1-216-017-91	RES,CHIP	47	5%	1/10W
R203		1 RES,CHIP	1K	5%	1/10W	R360	1-216-059-00	RES,CHIP	2.7K	5%	1/10W
R204		1 METAL OXIDE	22	5%	3W F			, -			
				5%	1/10W	R361	1-216-628-11	METAL CHIP	300	0.50	%1/10W
R205		0 RES,CHIP	2K			N301	1-210-030-11	WIL TAL OTH	300		nch model)
R207	1-216-055-0	0 RES,CHIP	1.8K	5%	1/10W					•	,
					1	R361	1-216-641-11	METAL CHIP	390		%1/10W
F208	1-216-065-0	0 RES,CHIP	4.7K	5%	1/10W					(14ii	nch model)
R209	1-216-057-0	0 RES,CHIP	2.2K	5%	1/10W	R362	1-216-017-91	RES,CHIP	47	5%	1/10W
R210		0 RES,CHIP	10K	5%	1/10W	R364	1-216-059-00	RES.CHIP	2.7K	5%	1/10W
		0 RES,CHIP	10K	5%	1/10W	R365		METAL CHIP	300	0.50	%1/10W
R211						11000	1-210 000 11	WILL TALL OF III	000		nch model)
R301	1-216-025-9	1 RES,CHIP	100	5%	1/10W					(201	ilcii illouei)
R302	1-216-675-1	1 METAL CHIP	10K	0.50	%1/10W	R365	1-216-641-11	METAL CHIP	390		%1/10W
R303	1-216-057-0	0 RES,CHIP	2.2K	5%	1/10W					(14i	nch model)
R304		0 RES,CHIP	22K	5%	1/10W	R366	1-216-017-91	RES.CHIP	47	5%	1/10W
		0 RES,CHIP	10	5%	1/10W	R368	1-216-073-00	RES CHIP	10K	5%	1/10W
R305					1/10W	R369	1-216-073-00		10K	5%	1/10W
R306	1-216-001-0	00 RES,CHIP	10	5%	171000						
						R370	1-216-073-00	HEO,UNIP	10K	5%	1/10W
F307	1-216-057-0	00 RES,CHIP	2.2K	5%	1/10W						44
R308	1-216-651-	1 METAL CHIP	1K	0.50	%1/10W	R371	1-216-073-00	RES,CHIP	10K	5%	1/10W
R309		1 METAL CHIP	6.8K	0.50	%1/10W	R372	1-216-073-00	RES,CHIP	10K	5%	1/10W
R310		1 METAL CHIP	1K		%1/10W	R373	1-216-073-00		10K	5%	1/10W
					1	R374	1-216-073-00		10K	5%	1/10W
R311	1-216-6/1-	11 METAL CHIP	6.8K	0.50	%1/10W						1/10W
						R375	1-249-429-11	CARBUN	10K	5%	1/ ~1 ¥¥
R312	1-216-651-	11 METAL CHIP	1K		%1/10W						
R313	1-216-671-	11 METAL CHIP	6.8K	0.50	%1/10W	R376	1-216-073-00	RES,CHIP	10K	5%	1/10W
R314		00 RES,CHIP	10	5%	1/10W	R377	1-216-049-91	RES.CHIP	1K	5%	1/10W
		00 RES,CHIP	10	5%	1/10W	R378	1-215-437-00	•	4.7K	1%	1/4W
R315					1/10W		. 2.0 40, 00				nch model)
R316	1-216-001-0	00 RES,CHIP	10	5%	1/1000	D070	1 045 440 00	METAL	6 24	•	1/4W
						R378	1-215-440-00	IVIETAL	6.2K	1%	
R317		00 RES,CHIP	10K	5%	1/10W	_					nch model)
F318	1-216-049-9	91 RES,CHIP	1K	5%	1/10W	R379	1-249-429-11	CARBON	10K	5%	1/4W
R319		00 RES,CHIP	1.2K	5%	1/10W						
R320		00 RES,CHIP	1.2K	5%	1/10W	R380	1-216-073-00	RES.CHIP	10K	5%	1/10W
			10K	5%	1/10W	R381	1-216-049-91		1K	5%	1/10W
R321	1-210-0/3-0	00 RES,CHIP	IUN	J 76	1/1044			•	3.9K	1%	1/4W
			4016		4/4654	R382	1-215-435-00	IVIE I AL	J.SR		
R322		00 RES,CHIP	10K	5%	1/10W					,	nch model)
F323	1-216-067-0	00 RES,CHIP	5.6K	5%	1/10W	R382	1-215-438-00	METAL	5.1K	1%	1/4W
R324	1-202-826-0		4.7K	10%	1/2W					(14i	nch model)
R325		00 RES,CHIP	8.2K	5%	1/10W	R383	1-216-073-00	RES.CHIP	10K	5%	1/10W
HU23	, 210-0714	,0,111			nch model)			,			•
444				(201							



Ref.No.	Part No.	Description		R	emark	Ref.No	o. Part No.	Description			Remark
R384	1-216-073-00	•	10K	5% 5%	1/10W 1/10W	R559	1-216-077-00	RES, CHIP	15K	5% (14in	1/10W ch model)
R385	1-216-049-91	•	1K		ì	DECO	1 016 007 01	DEC CUID	100K	5%	1/10W
R386	1-215-433-00		3.3K	•	1/4W ch model)	R560	1-216-097-91	NES,CHIP	IUUK		ch model)
R386	1-215-436-00		4.3K	•	1/4W ch model)	R560	1-216-105-91	RES, CHIP	220K	5%	1/10W
R387	1-216-073-00	RES,CHIP	10K	5%	1/10W	R561	1-249-392-11	CARBON	8.2	(14in 5%	ch model) 1/4W F
R388	1-216-073-00	RES,CHIP	10K	5%	1/10W					(20in	ch model)
R389	1-216-049-91	RES,CHIP	1K	5%	1/10W	R561	1-532-727-11	LINK, IC (0.25A/	'150V) (14in	ch mod	del)
R390	1-216-663-1	METAL CHIP	3.3K		61/10W ch model)	R562	1-216-670-11	METAL CHIP	6.2K		61/10W ch model)
R390	1-216-664-1	METAL CHIP	3.6K		61/10W ch model)	R562	1-216-675-11	METAL CHIP	10K		61/10W ch model)
R391	1-216-664-1	METAL CHIP	3.6K	0.50%	61/10W (ch model)	R563 R564	1-216-675-11 1-216-061-00	METAL CHIP	10K 3.3K	0.50% 5%	61/10W 1/10W
R391	1-216-665-1	METAL CHIP	3.9K		61/10W ch model)	R565 R569	1-216-049-91 1-216-113-00	RES,CHIP	1K 470K	5% 5%	1/10W 1/10W
R392	1-216-664-1	I METAL CHIP	3.6K	0.50%	61/10W	R570		METAL OXIDE		5%	1W F
R392	1-216-667-1	METAL CHIP	4.7K	0.50%	ch model) 61/10W	D.570	4 040 400 44	METAL OVIDE	10	•	ŕ
Doco	4 040 004 0	ם מו מו	10	•	ch model)	R570	1-210-422-11	METAL OXIDE	10	5% (1/in	1W F
R393	1-216-001-00		10	5%	1/10W	DE71	1-216-049-91	DEC CUID	1K	5%	1/10W
R394	1-216-001-00	RES,UNIP	10	5%	1/10W	R571	1-216-049-91 ★ 1-202-885-91		1M		1/2W
5005	1 010 000 1	LASTAL OLUD	0014	0.500	/ 4 /4 OVA/						
R395	1-216-683-1	METAL CHIP	22K		61/10W	R602		METAL OXIDE	39K	5%	
					ch model)	R604	1-215-8//-11	METAL OXIDE	22K	5%	1W F
R395	1-216-691-1	METAL CHIP	47K		61/10W					==-/	
				•	ch model)	R605		METAL OXIDE		5%	1W F
R401	1-216-049-9°	I RES,CHIP	1K	5%	1/10W	R606	1-249-421-11		2.2K	5%	1/4VV
R402	1-216-049-9	I RES,CHIP	1K	5%	1/10W	R607	1-249-417-11		1K	5%	1/4VV
R403	1-216-049-9	I RES,CHIP	1K	5%	1/10W	R608 R609	1-217-241-00 1-247-807-31	WIREWOUND CARBON	0.22 100	10% 5%	3W F 1/4 //
R404	1-216-049-9	I RES,CHIP	1K	5%	1/10W						
R405	1-216-049-9	RES,CHIP	1K	5%	1/10W	R610	1-216-471-11	METAL OXIDE		5%	3W F
R406	1-216-073-00	RES,CHIP	10K	5%	1/10W	R611	1-249-417-11	CARBON	1K	5%	1/4//
R501	1-216-063-9 ⁻	I RES,CHIP	3.9K	5%	1/10W	R612	△ 1-205-998-11	CEMENTED	1	5%	10 V
R502	1-216-071-00	RES,CHIP	8.2K	5%	1/10W	R612	∆ 1-220-820-31	CEMENTED	1.5	(20in 5%	ch model) 10\ V
R503	1-215-895-1	METAL OXIDE	3.3K	5% (20in	2W F ch model)	R613	1-249-426-11	CARBON	5.6K	(14in 5%	ch model) 1/4 /V
R503	1-215-896-00	METAL OXIDE	4.7K	5% (14in	2W F	R614	∆ 1-202-725-91	SOLID	3.3M	10%	1/2//
R506	1-260-326-1	CARBON	680	5%	1/2W	R615	△ 1-202-725-91	SOLID	3.3M	10%	1/2//
R507		METAL OXIDE		5%	1W F	R616	△ 1-205-998-11	CEMENTED	1	5%	10W
R508		METAL OXIDE		5%	1W F						ch model)
71000	7 270 000 7				ch model)	R616	△ 1-220-820-31	CEMENTED	1.5	5%	10\V ch model)
R508	1-215-862-1	1 METAL OXIDE	68	5% (14in	1W F	R622	1-249-424-11	CARBON	3.9K	5%	1/4 /V
R513	1-247-887-0	CARRON	220K	5%	1/4W	R623	1-216-490-11	METAL OXIDE	39K	5%	3W F
R514	1-249-419-1		1.5K	5%	1/4W F	R657	1-249-417-11		1K	5%	1/4//
R551		METAL OXIDE	270	5%	1W F	R1201		METAL OXIDE	22	5%	3W F
R552		METAL OXIDE		5%	1W F	R1401	1-216-073-00		10K	5%	1/10W
						R1402	1-216-025-91	. •	100	5%	1/10W
R553		METAL CHIP	10K 24K		61/10W 61/10W	R1403	1-216-025-91	BES CHIB	100	5%	1/10W
R554	1-210-004-9	1 METAL CHIP	24N			R1404	1-216-025-91	·	100	5%	1/10W
Den.	4 040 000 4	METAL CLUD	2014	•	ch model)			•			
R554	1-210-086-1	1 METAL CHIP	30K		61/10W	R1405	1-216-025-91		100	5% 5%	1/10/W 1/10/W
D	1 044 005 0	CARRON	1 5	•	ch model)	R1406	1-216-027-00		120	5% 5%	
R556	1-244-805-9		1.5		1/2W	R1407	1-216-027-00	HEO,UHIP	120	5%	1/1 > W
R557	1-216-684-9	1 METAL CHIP	24K		61/10W ch model)	R1408	1-216-027-00		120	5%	1/1 > ₩
						R1409	1-216-027-00	•	120	5%	1/1 > ₩
R557	1-216-686-1	1 METAL CHIP	30K		61/10W	R1410	1-216-027-00		120	5%	1/1 > W
				•	ch model)	R1411	1-216-027-00		120	5%	1/1 > W
R558 R559	1-216-675-1 1-216-063-9	1 METAL CHIP 1 RES,CHIP	10K 3.9K	5%	61/10W 1/10W	R1412	1-247-807-31		100	5%	1/4/~
				(20in	ch model)	R1414	1-216-001-00	RES,CHIP	10	5%	1/1 ▶ W



Ref.No.	Part No.	Description		Re	emark	Ref.No.	Part No.	Description			Remar	k
	1-216-025-9	1 DES CUID	100	5%	1/10W	C711	1-102-002-00	CERAMIC	680PF	10%	500V	
R1415 R1416	1-216-025-9		100	5%	1/10W	C712	1-102-002-00		680PF		500V	
R1417	1-216-025-9	•	100	5%	1/10W	C716	1-126-940-11	-	330μF		25V	
R1417	1-216-025-9		100	5%	1/10W	0710	1 120 040 11	LLLO.	ουομ.	_0 /0		
N 1410	1-210-025-9	I NEO,OHIF	100	J /6	1/10**	C721	1-107-667-11	FLECT	2.2µF	20%	400V	
R1419	1-216-025-9	1 DES CUID	100	5%	1/10W	C723	1-162-116-00		680PF		2KV	
R1420	1-216-025-9		100	5%	1/10W		1-102-110-00		22PF	5%	50V	
R1420	1-216-025-9		100	5%	1/10W	0/24 //	2 1-102-303-31	OLITAMIO	2211	3 /0	30 v	
M 142 I	1-210-025-9	i nes,onir	100	J /6	1/10**							
							<connecto< td=""><td>R></td><td></td><td></td><td></td><td></td></connecto<>	R>				
	<switch></switch>											
						CN701	* 1-508-768-00	PIN, CONNECT	OR (5mm P	ITCH)	6P	
S001	1-571-532-2	1 SWITCH, TACT	TL .					PLUG, CONNE				
S002	1-571-532-2	1 SWITCH, TACT	TL			CN703	1-695-915-11	TAB (CONTACT	Γ)			
S003	1-571-532-2	1 SWITCH, TACT	IL.									
S004	1-571-532-2	1 SWITCH, TACT	TL.									
S006	1-571-532-2	1 SWITCH, TACT					<diode></diode>					
		(P'	VM-14N6A/E	E/U, 20	N6A/E/U)							
						D710		DIODE 1SS133				
S007	1-571-532-2	1 SWITCH, TACT				D711		DIODE 1SS133				
			SM-14N5A/E	=/0, 20	INSA/E/U)	D712		DIODE 188133				
S008	1-571-532-2	1 SWITCH, TACT				D713		DIODE 1SS133				
0504	4 554 400 0	•	SM-14N5A/E	=/0, 20	INSA/E/U)	D714	8-719-991-33	DIODE 1SS133	1-//			
S501		0 SWITCH, LÉVÉ 1 SWITCH, PUSH		:D\		D715	9-710-001-33	DIODE 1SS133	T-77			
S601	A 1-37 1-433-3	1 SWITCH, FUSE	I (AC FOWL	-17)		D716		DIODE 188133				
						<i>D</i> , 10	071000100	BIODE TOOTOO				
	<spark ga<="" td=""><td>NP></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></spark>	NP>										
	2017111110						<jack></jack>					
SG501	1-519-422-1	1 GAP, SPARK										
		,				J701 ₫	1-526-819-11	SOCKET, PICT	URE TUBE			
	<transfo< td=""><td>RMER></td><td></td><td>•</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></transfo<>	RMER>		•								
							<coil></coil>					
T501	∆ 1-453-277-1	1 TRANSFORME										
			-4008//U2A4			L701	1-410-6/1-31	INDUCTOR 47	.H			
T 501	△ 1-453-278-1	1 TRANSFORME										
~	4 407 000 0	•	-4301//U2A4) (14IN	cn model)		<transisto< td=""><td>ND.</td><td></td><td></td><td></td><td></td></transisto<>	ND.				
T502	1-437-090-3		D CONVED	TED /	CDT\		<1 HANSIST C)ri>				
T601		1 TRANSFORME		•	oni)	Q701	8-720-110-76	TRANSISTOR 2	SA1175-HE	:E		
T603	A 1-429-462-1	1 TRANSFORME	M, LINE FIL	IEN		Q710		TRANSISTOR 2		_		
						Q711		TRANSISTOR 2				
	<thermist< td=""><td>TOR_{>}</td><td></td><td></td><td></td><td>Q712</td><td></td><td>TRANSISTOR 2</td><td></td><td></td><td></td><td></td></thermist<>	TOR _{>}				Q712		TRANSISTOR 2				
	< TILL IIIII O	10112				Q713		TRANSISTOR E				
THP60	1. 1-808-059-3	2 THERMISTOR,	POSITIVE									
						Q714	8-729-906-70	TRANSISTOR E	3F871-127			
						Q715	8-729-906-70	TRANSISTOR E	3F871-127			
	<crystal:< td=""><td>></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></crystal:<>	>										
24004	4 507 704 4	4 1//004700 00	NOTAL				DECICTOR					
X001		1 VIBRATOR, CR					<resistor></resistor>	•				
X301		1 OSCILLATOR,				R701	1 202 846 00	COLID	470K	200/	1/2W	
X302	1-507-505-1	1 OSCILLATOR,	CHISTAL			R702	1-202-846-00 1-202-846-00		470K		1/2W	
						R703	1-202-340-00		1M		1/2W	
						R704	1-202-838-00		100K		1/2W	
******	******	******	*****	*****	******	R705	1-202-842-11		220K		1/2W	
	* A-1331-827-	-A CA BOARD,	COMPLETE	Ξ		R706	1-202-818-00	SOLID	1K	20%	1/2W	
	+ · - - -	******	******	*		R707	1-202-818-00		1K		1/2W	
				(14in	ch model)	R708	1-202-818-00	SOLID	1K	20%	1/2W	
						R715	1-247-807-31	CARBON	100	5%	1/4W	
		1 COVER (MAIN)				R716	1-247-807-31	CARBON	100	5%	1/4W	
	* 4-374-913-0	1 COVER (REAR	LID), CV VC)L								
						R717	1-247-807-31		100	5%	1/4W	_
	0.00	ND.			*	R722		METAL OXIDE	1.8	5%	2W	F
	<capacito< td=""><td>NH></td><td></td><td></td><td></td><td>R723</td><td></td><td>METAL OXIDE</td><td></td><td>5%</td><td>3W</td><td>F</td></capacito<>	NH>				R723		METAL OXIDE		5%	3W	F
0700	1,126 601 4	1 EILM	0.01μ F	100/	630V	R724 R725		METAL OXIDE		5% 5%	3W 3W	F F
C709 C710	1-136-601-1	0 CERAMIC	0.01μF 680PF		500V	n/20	1-210-40/-11	IVIC I AL UNIDE	IZN	5%	344	Г
CHU	1-102-002-0	O OLDAIVIIO	OOOF1	10/0	200 v							



R730	27 27 27 5-HFE 20% 20% 20% 20% 20%	1/2W 1/2W 1/2W 1/2W 1/2W 1/2W 1/4W 1/4W 3W 3W 3W 3W 1/4W 1/4W 1/4W 1/4W 1/4W 1/4W
R751 1-249-412-11 CARBON 390 5% 1/4W	5-HFE 20% 20% 20% 20% 20% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5%	1/2W 1/2W 1/2W 1/2W 1/2W 1/2W 1/4W 1/4W 3W 3W 3W 3W 1/4W 1/4W 1/4W 1/4W
«VARIABLE RESISTOR» RV701 1-230-641-11 RES, ADJ, METAL GLAZE 2.2M RV703 R701 1-202-846-00 SOLID 470K R702 1-202-838-00 SOLID 100K R703 1-202-838-00 SOLID 100K R703 1-202-838-00 SOLID 100K R703 1-202-842-11 SOLID 220K R706 1-202-842-11 SOLID 220K R706 1-202-818-00 SOLID 1K *A-1331-828-A CB BOARD, COMPLETE R703 1-202-818-00 SOLID 1K *A-1331-828-A CB BOARD, COMPLETE R716 1-202-818-00 SOLID 1K *A-1331-828-A CB BOARD, COMPLETE R716 1-247-807-31 CARBON 100 *CAPACITOR» (20inch model) R716 1-247-807-31 CARBON 100 R711 1-247-807-31 CARBON 100 R717 1-247-807-31 CARBON 100 R722 1-216-412-11 METAL OXIDE 10K R723 1-216-487-11 METAL OXIDE 12K R724 1-216-487-11 METAL OXIDE 12K R725 1-216-487-11 METAL OXIDE 12K R725 1-216-487-11 METAL OXIDE 12K R725 1-216-487-11 METAL OXIDE 12K R726 1-247-903-00 CARBON 1M R725 1-216-487-11 METAL OXIDE 12K <td< td=""><td>20% 20% 20% 20% 5% 5% 5% 5% 5% 5% 5% 5% 5%</td><td>1/2W 1/2W 1/2W 1/2W 1/2W 1/2W 1/4W 1/4W 3W 3W 3W 3W 1/4W 1/4W 1/4W 1/4W</td></td<>	20% 20% 20% 20% 5% 5% 5% 5% 5% 5% 5% 5% 5%	1/2W 1/2W 1/2W 1/2W 1/2W 1/2W 1/4W 1/4W 3W 3W 3W 3W 1/4W 1/4W 1/4W 1/4W
RV701 1-230-641-11 RES, ADJ, METAL GLAZE 2.2M R702 1-220-838-00 SOLID 100K RV703 1-230-798-11 RES, ADJ, METAL GLAZE 2.2M R703 1-202-838-00 SOLID 100K RV703 1-230-798-11 RES, ADJ, METAL GLAZE 90M R705 1-202-838-00 SOLID 100K R705 1-202-848-11 SOLID 220K R706 1-202-818-00 SOLID 1K R705 1-202-818-00 SOLID 1K R706 1-202-818-00 SOLID 1K R706 1-202-818-00 SOLID 1K R708 1-202-818-00 SOLID 1K R709 1-202-818-90 SOLID 100 1K R709 1-202-8	20% 20% 20% 20% 5% 5% 5% 5% 5% 5% 5% 5% 5%	1/2W 1/2W 1/2W 1/2W 1/2W 1/2W 1/4W 1/4W 3W 3W 3W 3W 1/4W 1/4W 1/4W 1/4W
RV701 1-230-641-11 RES, ADJ, METAL GLAZE 2.2M RV702 1-230-641-11 RES, ADJ, METAL GLAZE 2.2M RV703 1-230-798-11 RES, ADJ, METAL GLAZE 2.2M RV703 1-230-798-11 RES, ADJ, METAL GLAZE 2.2M RV703 1-202-838-00 SOLID 100K RV703 1-202-888-00 SOLID 100K RV706 1-202-818-00 SOLID 1K RV706 1-202-818-00 SOLID 1K RV707 1-202-818-00 SOLID 1K RV708 1-202-818-00 SOLID 1K RV708 1-202-818-00 SOLID 1K RV709 1-202-818-00 SOLID 1K RV709 1-202-818-00 SOLID 1K RV701 1-202-818-00 SOLID 1K RV701 1-202-818-00 SOLID 1K RV702 1-202-818-00 SOLID 1K RV703 1-202-818-00 SOLID 1K RV703 1-202-818-00 SOLID 1K RV703 1-202-818-00 SOLID 1K RV703 1-202-818-00 SOLID 1K RV708 1-202-818-00 SOLID 1K RV709 1-202-800 SOLID 1K RV709 1-202-800 SOLID 1K RV709 1-202-800 SOLID 1K RV701 1-202-818-00 SOLID 1K RV701 1-202-818-00 SOLID 1K RV701 1-202-818-00 SOLID 1K RV701 1-202-818-00 SOLID 1K RV703 1-202-818-0	20% 20% 20% 20% 5% 5% 5% 5% 5% 5% 5% 5% 5%	1/2W 1/2W 1/2W 1/2W 1/2W 1/2W 1/4W 1/4W 3W 3W 3W 3W 1/4W 1/4W 1/4W 1/4W
*A-1331-828-A CB BOARD, COMPLETE (20inch model) *CAPACITOR> *COPACITOR> *COPACITOR 1-102-002-00 CERAMIC 680PF 10% 500V C711 1-102-002-00 CERAMIC 680PF 10% 500V C716 1-126-940-11 ELECT 330µF 20% 25V R751 1-247-807-31 CARBON 100 R752 1-248-9412-11 CARBON 220 R753 1-162-116-00 CERAMIC 680PF 10% 25V R753 1-249-412-11 CARBON 390 R752 1-249-412-11 CARBON 390 R753 1-249-412-11 CARBON 390 R753 1-249-412-11 CARBON 390 R753 1-249-412-11 CARBON 390 R753 1-249-412-11 CARBON 390 R750 1-249-412-11 CARBON 390 R750 1-249-412-11 CARBON 390 R751 1-249-412-11 CARBON 390 R752 1-249-412-11 CARBON 390 R752 1-249-412-11 CARBON 390 R753 1-249-412-11 CARBON 390 R753 1-249-412-11 CARBON 390 R753 1-249-412-11 CARBON 390 R753 1-249-412-11 CARBON 390 R753 1-249-412-11 CARBON 390 R753 1-249-412-11 CARBON 390 R750 1	20% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5%	1/2W 1/4W 1/4W 1/4W 5W 3W 3W 3W 1/4W 1/4W 1/4W
*A-1331-828-A CB BOARD, COMPLETE (20inch model) *CAPACITOR> (20inch model) *CAPACITOR> (20inch model) *COMPLETE (20in	5% 5% 5% 5% 5% 5% 5% 5% 5% 5%	1/4W 1/4W 1/4W 5W 3W 3W 3W 1/4W 1/4W 1/4W 1/4W
(20inch model) (21 216-412-11 METAL OXIDE 18 (21-216-487-11 METAL OXIDE 10K (20inch model) (20inch model) (20inch model) (20inch model) (20inch model) (21-216-412-11 METAL OXIDE 10K (21-249-487-11 METAL OXIDE 12K (20inch model) (21-249-40-11 METAL OXIDE 10K (20inch model) (22inch model) (2	5% 5% 5% 5% 5% 5% 5% 5% 5%	1/4W 5W 3W 3W 1/4W 1/4W 1/4W 1/4W 1/4W
CAPACITOR> CAPACITOR> COAPACITOR> COAPACITOR> R722 1-216-412-11 METAL OXIDE 1.8 R723 1-215-923-00 METAL OXIDE 10K R724 1-216-487-11 METAL OXIDE 12K R725 1-216-487-11 METAL OXIDE 12K R726 R727 1-216-487-11 METAL OXIDE 12K R727 R728 1-216-487-11 METAL OXIDE 12K R729 1-216-487-11 METAL OXIDE 10K R729 1-249-409-11 CARBON 220 R731 1-247-903-00 CARBON 1M R731 1-247-903-00 CARBON 1M R731 1-249-412-11 CARBON 390 R752 1-249-412-11 CARBON 390 R753 1-2	5% 5% 5% 5% 5% 20% 5% 5%	3W 3W 1/4W 1/4W 1/2W 1/4W 1/4W
<capacitor> R724 1-216-487-11 METAL OXIDE 12K C709 1-136-601-11 FILM 0.01μF 10% 630V R725 1-216-487-11 METAL OXIDE 12K C710 1-102-002-00 CERAMIC 680PF 10% 500V R730 1-249-409-11 CARBON 220 C711 1-102-002-00 CERAMIC 680PF 10% 500V R731 1-247-903-00 CARBON 1M C712 1-102-002-00 CERAMIC 680PF 10% 500V R732 Δ 1-202-549-81 SOLID 100 C716 1-126-940-11 ELECT 330μF 20% 25V R751 1-249-412-11 CARBON 390 C721 1-107-667-11 ELECT 2.2μF 20% 400V R753 1-249-412-11 CARBON 390 C723 1-162-116-00 CERAMIC 680PF 10% 2KV R753 1-249-412-11 CARBON 390 C724 Δ 1-102-959-91 CERAMIC 22PF 5% 50V VARIABLE RESISTOR> CN701 * 1-508-768-00 PIN, CONNECTOR (5mm PITCH) 6P RV701 1-230-641-11 RES, ADJ, METAL FILM CN702 * 1-564-509-11 PLUG, CONNECTOR 6P PONNECTOR 6P RV701 1-241-714-11 RES, ADJ, METAL FILM</capacitor>	5% 5% 5% 5% 20% 5% 5%	3W 3W 1/4W 1/4W 1/2W 1/4W 1/4W
C709 1-136-601-11 FILM 0.01μF 10% 630V C710 1-102-002-00 CERAMIC 680PF 10% 500V C711 1-102-002-00 CERAMIC 680PF 10% 500V C712 1-102-002-00 CERAMIC 680PF 10% 500V C716 1-126-940-11 ELECT 330μF 20% 25V R751 1-249-412-11 CARBON 390 C721 1-107-667-11 ELECT 2.2μF 20% 400V C723 1-162-116-00 CERAMIC 680PF 10% 2KV C724 Δ 1-102-959-91 CERAMIC 22PF 5% 50V CONNECTOR> CN701 *1-508-768-00 PIN, CONNECTOR (5mm PITCH) 6P CN702 *1-564-509-11 PLUG, CONNECTOR 6P	5% 5% 5% 20% 5% 5%	3W 1/4W 1/4W 1/2W 1/4W 1/4W
C710 1-102-002-00 CERAMIC 680PF 10% 500V C711 1-102-002-00 CERAMIC 680PF 10% 500V C712 1-102-002-00 CERAMIC 680PF 10% 500V C712 1-102-002-00 CERAMIC 680PF 10% 500V C716 1-126-940-11 ELECT 330μF 20% 25V R751 1-249-412-11 CARBON 390 C721 1-107-667-11 ELECT 2.2μF 20% 400V C723 1-162-116-00 CERAMIC 680PF 10% 2KV C724 Δ 1-102-959-91 CERAMIC 22PF 5% 50V C724 Δ 1-102-959-91 CERAMIC 22PF 5% 50V CONNECTOR> CN701 *1-508-768-00 PIN, CONNECTOR (5mm PITCH) 6P CN702 *1-564-509-11 PLUG, CONNECTOR 6P	5% 20% 5% 5%	1/4W 1/2W 1/4W 1/4W
C711 1-102-002-00 CERAMIC 680PF 10% 500V C712 1-102-002-00 CERAMIC 680PF 10% 500V C716 1-126-940-11 ELECT 330μF 20% 25V R751 1-249-412-11 CARBON 390 C721 1-107-667-11 ELECT 2.2μF 20% 400V C723 1-162-116-00 CERAMIC 680PF 10% 2KV C724 Δ 1-102-959-91 CERAMIC 22PF 5% 50V CONNECTOR> CN701 *1-508-768-00 PIN, CONNECTOR (5mm PITCH) 6P CN702 *1-564-509-11 PLUG, CONNECTOR 6P	20% 5% 5%	1/2W 1/4W 1/4W
C716 1-126-940-11 ELECT 330μF 20% 25V R751 1-249-412-11 CARBON 390 C721 1-107-667-11 ELECT 2.2μF 20% 400V C723 1-162-116-00 CERAMIC 680PF 10% 2KV C724 Δ1-102-959-91 CERAMIC 22PF 5% 50V CONNECTOR> CONNECTOR> R751 1-249-412-11 CARBON 390 R752 1-249-412-11 CARBON 390 R753 1-2	5% 5%	1/4W 1/4W
C721 1-107-667-11 ELECT 2.2µF 20% 400V C723 1-162-116-00 CERAMIC 680PF 10% 2KV C724 \(\Delta \) 1-102-959-91 CERAMIC 22PF 5% 50V CONNECTOR> CN701 *1-508-768-00 PIN, CONNECTOR (5mm PITCH) 6P CN702 *1-564-509-11 PLUG, CONNECTOR 6P R752 1-249-412-11 CARBON 390 R753 1-249-412-11 CARBON 390 CVARIABLE RESISTOR> R752 1-249-412-11 CARBON 390 R753 1-249-412-11 CARB	5%	1/4W
C723 1-162-116-00 CERAMIC 680PF 10% 2KV C724	5%	1/4W
C724		
CONNECTOR> RV701 1-230-641-11 RES, ADJ, METAL GLA RV703 1-241-714-11 RES, ADJ, METAL FILM CN701 *1-508-768-00 PIN, CONNECTOR (5mm PITCH) 6P CN702 *1-564-509-11 PLUG, CONNECTOR 6P		
CN701 *1-508-768-00 PIN, CONNECTOR (5mm PITCH) 6P CN702 *1-564-509-11 PLUG, CONNECTOR 6P	ZE 2.2M	
CN702 *1-564-509-11 PLUG, CONNECTOR 6P		
	*****	*******
<diode> MISCELLANEOUS ************************************</diode>		
D710 8-719-991-33 DIODE 1SS133T-77		
D711 8-719-991-33 DIODE 1SS133T-77		
D712 8-719-991-33 DIODE 1SS133T-77		uo.,
D714 8-719-991-33 DIODE 1SS133T-77 1-452-032-00 MAGNET, DISC	(20ii	nch mode
D715 8-719-991-33 DIODE 1SS133T-77 D716 8-719-991-33 DIODE 1SS133T-77 1-505-188-11 SPEAKER (4X7CM)		
1-543-653-11 CORE ASSY, BEAD(DI * 1-900-214-07 WIRE ASSY, SEFETY B	EARTH	·
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J702		nch node
<coil> V901</coil>		nch mode
L701 1-410-478-11 INDUCTOR 47μH	`	
<transistor></transistor>	*****	*********
Q710 8-729-200-17 TRANSISTOR 2SA1091-O Q711 8-729-200-17 TRANSISTOR 2SA1091-O		

ACCESSORIES AND PACKING MATERIALS

Description

△ 1-534-827-21 CORD, POWER (US/CND model) △ 1-551-631-22 CORD, POWER (PVM-14N5MDE)

△ 1-782-929-11 CORD, POWER SUPPLY (BS 3P)

(AEP, AUS model)

3-864-152-11 MANUAL, INSTRUCTION (SSM-14N5A/E/U, 20N5A/E/U) (ENGLISH, FRENCH, GERMAN, ITALIAN, SPANISH, CHINESE)

3-864-157-11 MANUAL, INSTRUCTION (PVM-14N5A/E/U, 14N6A/E/U, PVM-20N5A/E/U, 20N6A/E/U) (ENGLISH, FRENCH, GERMAN, ITALIAN, SPANISH, CHINESE)

3-864-165-11 MANUAL, INSTRUCTION (PVM-14N5MDE) (ENGLISH, FRENCH, GERMAN, ITALIAN, SPANISH, CHINESE)

4-048-073-01 COVER, DROP PROTECTION

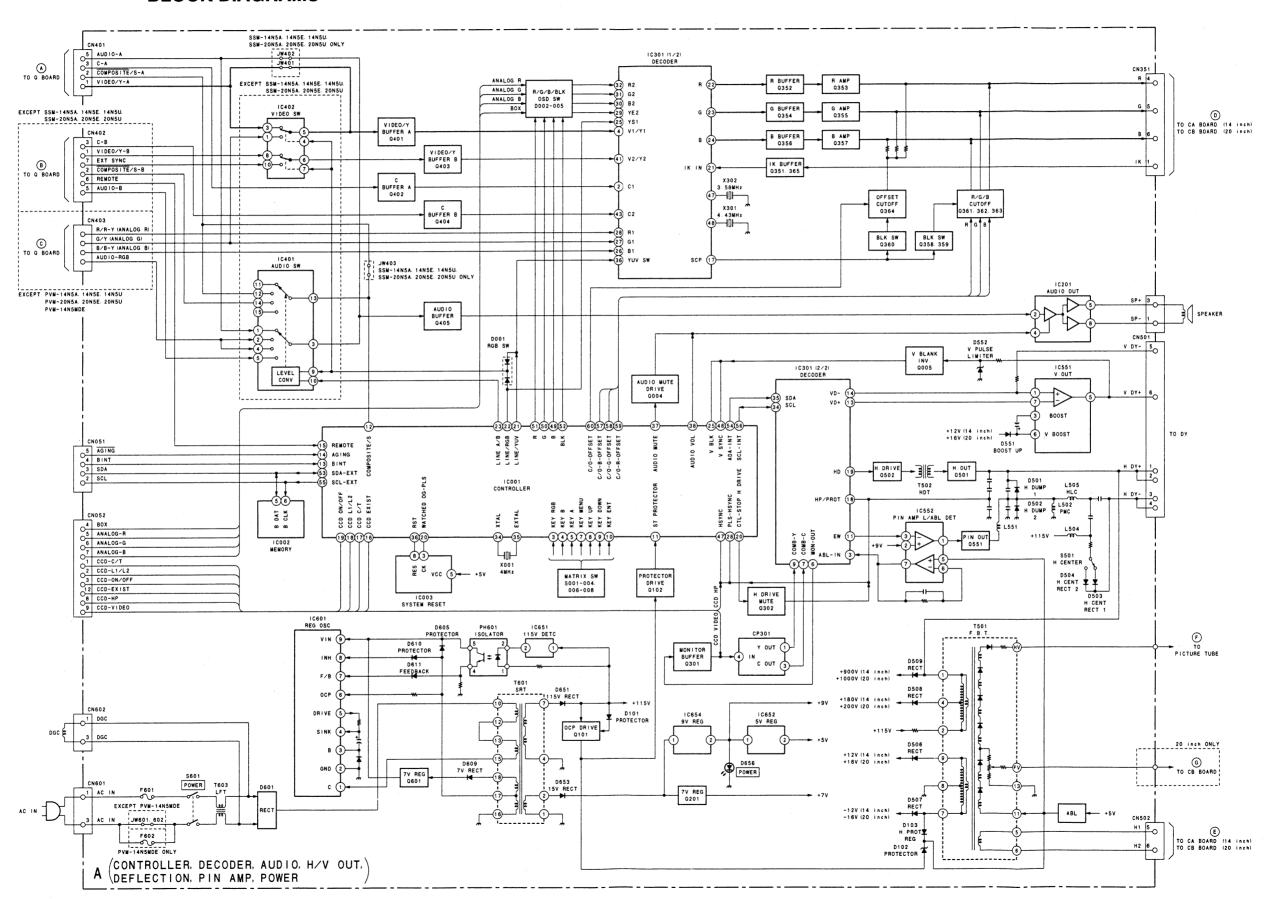
(PVM-14N5MDE)

- *4-048-606-01 INDIVIDUAL CARTON (14inch model)
- *4-048-607-01 CUSHION (UPPER) (ASSY) (14inch model)
- *4-048-608-01 CUSHION (LOWER) (ASSY)

(14inch model)

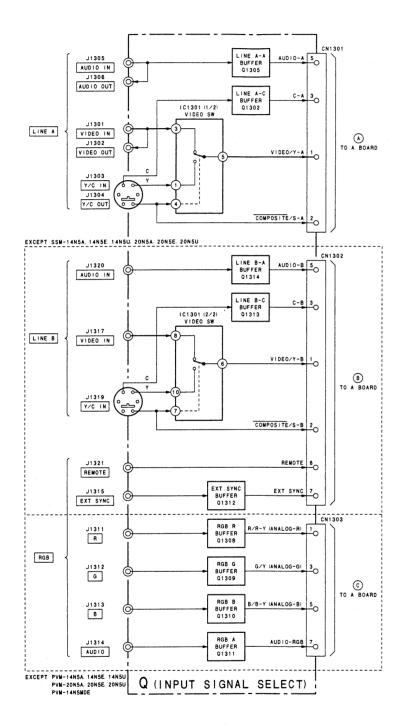
- *4-048-473-01 INDIVIDUAL CARTON (20inch model)
- * 4-048-474-01 CUSHION UPPER (ASSY) (20inch model)
- *4-048-475-01 CUSHION LOWER (ASSY) (20inch model)
- *4-377-015-01 BAG, PROTECTION (14inch model)
- *4-381-155-01 BAG, PROTECTION (20inch model)

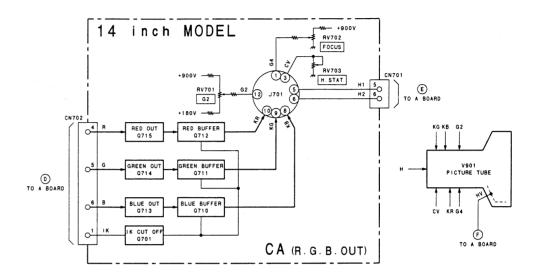
SECTION 9 BLOCK DIAGRAMS

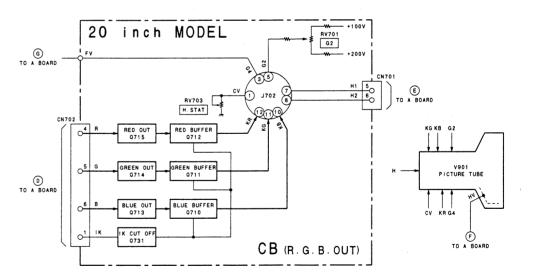


SIIA Chassis

9-1

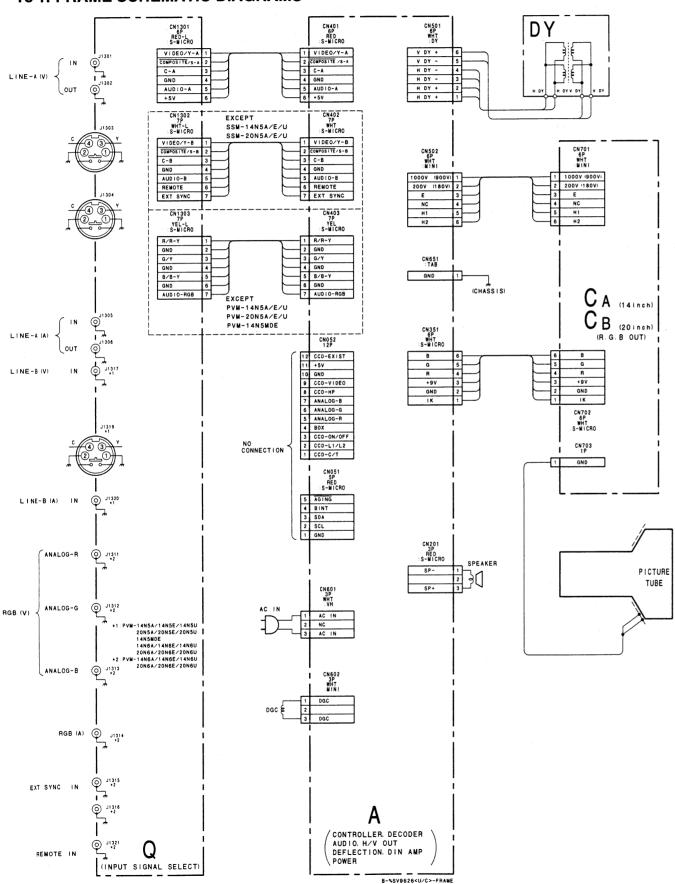






SECTION 10 DIAGRAMS

10-1. FRAME SCHEMATIC DIAGRAMS



SIIA Chassis

10-2. SCHEMATIC DIAGRAMS/PRINTED WIRING BOARDS

- · All capacitors are in µF unless otherwise noted. PF: 50WV or less are not indicated except for electorlytics.
- · All electrolytics are in 50V unless otherwise specified.
- All resistors are in ohms, 1/4W in resistance, 1/10w in chip resistance.

 $k\Omega = 100$. $M\Omega = 1000 k\Omega$

- : nonflammable resistor.
- Δ : internal component.
- : panel designation, or adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- The "4-1, +B Voltage Check" and "4-2. Protection Circuit (Hold-down circuit) Check" should always be performed when replacing the following components (marked a on the schematic diagram).

Parts replaced (☑)

C102, C331, C332, C333, C334, C335, C341, C390, C507, C1454, D102, D103, IC001, IC301, IC552, L505, Q102, R107, R108, R110, R324, R325, R326, R327, R328, R329, R330, T501

Readings are taken with a color-bar signal input.

no mark : 20 inch

) : 14 inch

- · Readings are taken with a 10 M digital multimeter .
- Voltage are dc with respect to ground unless otherwise noted.
- · Voltage variations may be noted due to normal production tolerances.
- All voltages are in V.
- Circled numbers are waveform reference.
- : B+ bus.
- ■ : B- bus.
- : signal path. \Rightarrow

The components identified by mark \triangle are critical for safety. Replace only with part number specified.

Les composants identifies par une marque Δ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

Reference information

: RN METAL FILM RESISTOR

: RC SOLID

: FPRD NONFLAMMABLE CARBON : FUSE NONFLAMMABLE FUSIBLE : RS NONFLAMMABLE METAL OXIDE

: RB NONFLAMMABLE CEMENT

: RW NONFLAMMABLE WIREWOUND : LF-8L MICRO INDUCTOR

COIL CAPACITOR : TA TANTALUM

: PS STYROL

: PP POLYPROPYLENE

: PT MYLAR

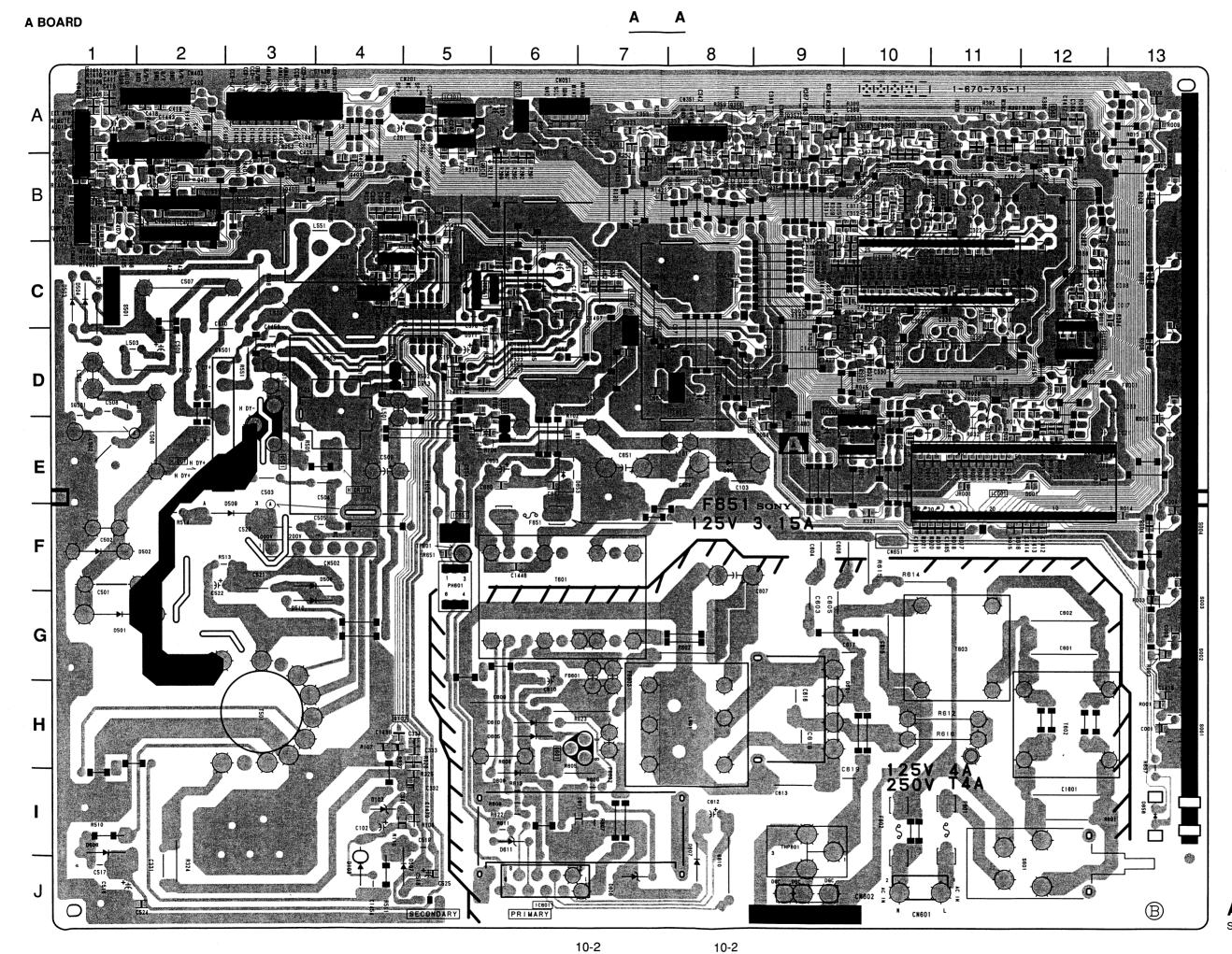
: MPS METALIZED POLYESTER : MPP METALIZED POLYPROPYLENE

: ALB BIPOLAR

: ALT HIGH TEMPERATURE

: ALR HIGH RIPPLE

10-1



A -B SIDE-SUFFIX: -11

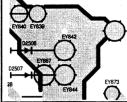
A BOARD

*: B SIDE IC001 E-11 IC002 D-12 IC003 E-10 IC201 A-5 IC301 C-10 IC401 B-2 IC402 A-2 IC551 C-5 IC552 B-4 IC601 J-6 IC651 F-5 IC652 D-8 IC654 C-7

Q004 *A-5 Q005 *D-9 Q1010 D-6 Q1012 *H-4 Q201 A-6 Q301 *C-11 Q302 *D-10 Q351 *A-7 Q352 *B-8 Q353 *B-8 Q354 *B-9 Q355 *A-8 Q355 *A-8 Q356 *A-9 Q357 *A-9 Q357 *A-9 Q358 *B-9 Q359 *A-10 Q361 *A-11 Q361 *A-11 Q362 *A-12 Q363 *A-12 Q363 *A-12 Q363 *A-12 Q364 *A-12 Q365 *A-7 Q401 *B-2 Q404 *B-3 Q404 *B-3 Q404 *B-3 Q404 *B-3 Q405 *B-3 Q501 E-3 Q501 C-4 Q601 H-6

TP601 F-5

*E-122*D-122*D-112*D-121*D-121*D-121*D-121*E-54*D-14*A-100*A



Note:

The circuit indicated as left contains high voltage of over 600 V p-p. Care must be paid to prevent an electric shock in inspection or repairing.

SIIA Chassis

Α

В

С

D

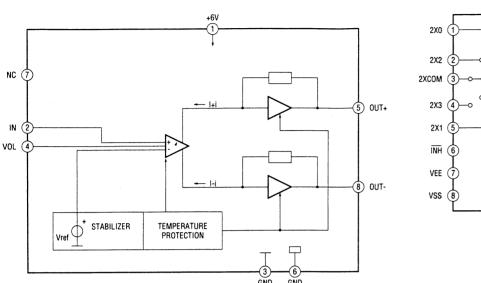
10-3

10-3 Ε

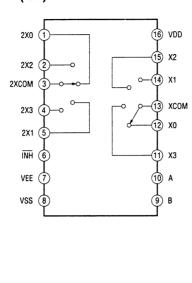
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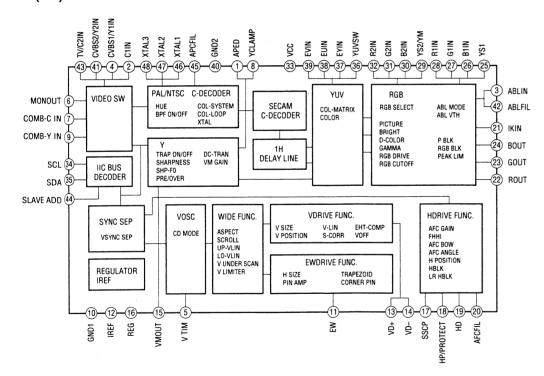
A (1/2) BOARD IC201 TDA7052A



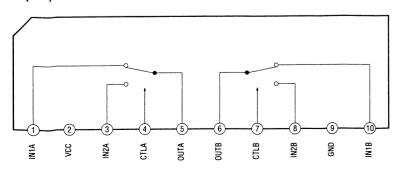
A (1/2) BOARD IC401 MC14052BCP



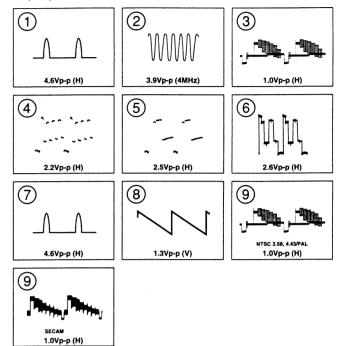
A (1/2) BOARD IC301 CXA2060BS



A (1/2) BOARD IC402 BA7604N



A (1/2) BOARD WAVEFORMS



A (1/2) BOARD * MARK LIST

Model							
Ref.No	PVM-14N6A/E/U	PVM-14N5A/E/U	PVM-20N6A/E/U	PVM-20N5A/E/U	SSM-14N5A/E/U	SSM-20N5A/E/U	PVM-14N5MDE
C006	0.01 B:CHIP	#	0.01 B:CHIP	#	#	#	#
C310	0.1 25V B:CHIP	#	0.1 25V B:CHIP	#	#	#	#
C311	0.1 25V B:CHIP	#	0.1 25V B:CHIP	#	#	#	#
C312	0.1 25V B:CHIP	#	0.1 25V B:CHIP	#	#	#	#
C355	330p CH:CHIP	330p CH:CHIP	390p CH:CHIP	390p CH:CHIP	330p CH:CHIP	390p CH:CHIP	330p CH:CHIP
C359	330p CH:CHIP	330p CH:CHIP	390p CH:CHIP	390p CH:CHIP	330p CH:CHIP	390p CH:CHIP	330p CH:CHIP
C363	330p CH:CHIP	330p CH:CHIP	390p CH:CHIP	390p CH:CHIP	330p CH:CHIP	390p CH:CHIP	330p CH:CHIP
C417	68p CH:CHIP	68p CH:CHIP	68p CH:CHIP	68p CH:CHIP	0:CHIP	0:CHIP	68p CH:CHIP
C418	68p CH:CHIP	68p CH:CHIP	68p CH:CHIP	68p CH:CHIP	0:CHIP	0:CHIP	68p CH:CHIP
C419	68p CH:CHIP	68p CH:CHIP	68p CH:CHIP	68p CH:CHIP	0:CHIP	0:CHIP	68p CH:CHIP
C420	0.001 B:CHIP	0.001 B:CHIP	0.001 B:CHIP	0:CHIP	0:CHIP	0:CHIP	0.001 B:CHIP
CN402	7P WHT :S-MICRO	7P WHT :S-MICRO	7P WHT :S-MICRO	7P WHT :S-MICRO	#	#	7P WHT :S-MICRO
	7P YEL :S-MICRO	#	7P YEL :S-MICRO	#	7P YEL :S-MICRO	7P YEL :S-MICRO	#
IC401	MC14052BCP	MC14052BCP	MC14052BCP	MC14052BCP	#	#	MC14052BCP
IC402	BA7604N	BA7604N	BA7604N	BA7604N	#	#	BA7604N
JW401	#	1 #	#	#	5MM	5MM	#
	#	#	#	#	5MM	5MM	#
JW403	#	#	#	#	5MM	5MM	#
R024	#	#	#	#	#	#	10
R028	#	#	10	10	#	10	#
R030	10	#	10	#	#	#	#
R032	10	10	10	10	#	#	10
R351	6.2k :RN-CP	6.2k :RN-CP	15k :RN-CP	15k :RN-CP	6.2k :RN-CP	15k :RN-CP	6.2k :RN-CP
R357	390 :RN-CP	390 :RN-CP	300 :RN-CP	300 :RN-CP	390 :RN-CP	300 :RN-CP	390 :RN-CP
R361	390 :RN-CP	390 :RN-CP	300 :RN-CP	300 :RN-CP	390 :RN-CP	300 :RN-CP	390 :RN-CP
R365	390 :RN-CP	390 :RN-CP	300 :RN-CP	300 :RN-CP	390 :RN-CP	300 :RN-CP	390 :RN-CP
R378	6.2k :RN	6.2k :RN	4.7k :RN	4.7k :RN	6.2k :RN	4.7k :RN	6.2k :RN
R382	5.1k :RN	5.1k :RN	3.9k :RN	3.9k :RN	5.1k :RN	3.9k :RN	5.1k :RN
R386	4.3k :RN	4.3k :RN	3.3k :RN	3.3k :RN	4.3k :RN	3.3k :RN	4.3k :RN
R390	3.6k :RN-CP	3.6k :RN-CP	3.3k :RN-CP	3.3k :RN-CP	3.6k :RN-CP	3.3k :RN-CP	3.6k :RN-CP
R391	3.6k :RN-CP	3.6k :RN-CP	3.9k :RN-CP	3.9k :RN-CP	3.6k :RN-CP	3.9k :RN-CP	3.6k :RN-CP
R392	3.6k :RN-CP	3.6k :RN-CP	4.7k :RN-CP	4.7k :RN-CP	3.6k :RN-CP	4.7k :RN-CP	3.6k :RN-CP
R395	22k :RN-CP	22k :RN-CP	47k :RN-CP	47k :RN-CP	22k :RN-CP	47k :RN-CP	22k :RN-CP
S006	RGB-KEY	#	RGB-KEY	#	#	#	#
S007	LINE B	LINE B	LINE B	LINE B	#	#	LINE B
S008	LINE A	LINE A	LINE A	LINE A	#	#	LINE A

10-4

10-4

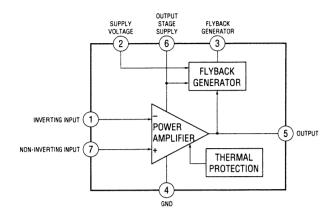
SIIA Chassis

j

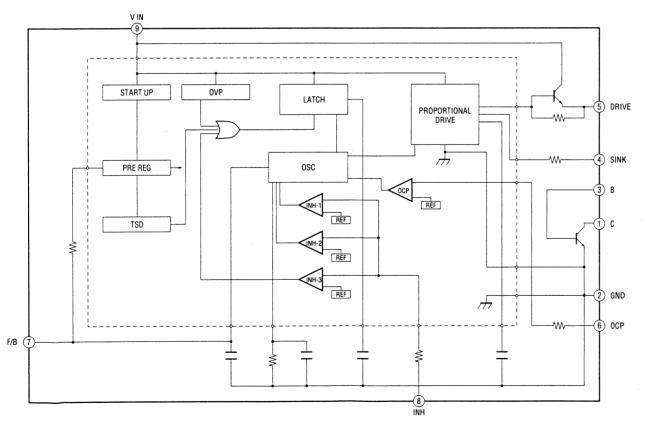
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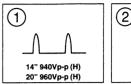
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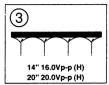
A (2/2) BOARD IC601 STR-S6708

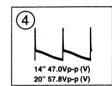


A (2/2) BOARD WAVEFORMS









A (2/2) BOARD * MARK LIST

Model							
Ref.No	PVM-14N6A/E/U	PVM-14N5A/E/U	PVM-20N6A/E/U	PVM-20N5A/E/U	SSM-14N5A/E/U	SSM-20N5A/E/U	PVM-14N5MDE
C502	0.015 630V	0.015 630V	0.018 400V	0.018 400V	0.015 630V	0.018 400V	0.015 630V
C510	0.1 200V :PP	0.1 200V :PP	0.33 200V :PP	0.33 200V :PP	0.1 200V :PP	0.33 200V :PP	0.1 200V :PP
F602	#	#	#	#	#	#	4A/250V
JW601	10MM	10MM	10MM	10MM	IOMM	10MM	#
JW602	10MM	10MM	10MM	10MM	10MM	10MM	#
L505	1-459-760-13	1-459-760-13	1-459-769-13	1-459-769-13	1-459-760-13	1-459-769-13	1-459-760-13
Q501	2SD1877S	2SD1877S	2SD1878-CA	2SD1878-CA	2SD1877S	2SD1878-CA	2SD1877S
R101	1.5 3W	1.5 3W	1.2 3W	1.2 3W	1.5 3W	1.2 3W	1.5 3W
R108	180k :RN-CP	180k :RN-CP	150k :RN-CP	150k :RN-CP	180k :RN-CP	150k :RN-CP	180k :RN-CP
R110	470k RN:CHIP	470k RN:CHIP	510k RN:CHIP	510k RN:CHIP	470k RN:CHIP	510k RN:CHIP	470k RN:CHIP
R325	12k :CHIP	12k :CHIP	8.2k :CHIP	8.2k :CHIP	12k :CHIP	8.2k :CHIP	12k :CHIP
R326	3.9k :CHIP	3.9k :CHIP	2.7k :CHIP	2.7k :CHIP	3.9k :CHIP	2.7k :CHIP	3.9k :CHIP
R503	4.7k 2W	4.7k 2W	3.3k 2W	3.3k 2W	4.7k 2W	3.3k 2W	4.7k 2W
R508	68 IW :RS	68 1W :RS	33 IW :RS	33 1W :RS	68 IW :RS	33 IW :RS	68 1W :RS
R554	30k :RN-CP	30k :RN-CP	24k :RN-CP	24k :RN-CP	30k :RN-CP	24k :RN-CP	30k :RN-CP
R557	30k :RN-CP	30k :RN-CP	24k :RN-CP	24k :RN-CP	30k :RN-CP	24k :RN-CP	30k :RN-CP
R559	15k :CHIP	15k :CHIP	3.9k :CHIP	3.9k :CHIP	15k :CHIP	3.9k :CHIP	15k :CHIP
R560	220k :CHIP	220k :CHIP	100k :CHIP	100k :CHIP	220k :CHIP	100k :CHIP	220k :CHIP
R561	IC-LINk	IC-LINk	8.2 1/4W :FPRD	8.2 1/4W :FPRD	IC-LINk	8.2 1/4W :FPRD	IC-LINk
R562	6.2k :RN-CP	6.2k :RN-CP	10k :RN-CP	10k :RN-CP	6.2k :RN-CP	10k :RN-CP	6.2k :RN-CP
R570	18 IW :RS	18 1W :RS	12 1W :RS	12 IW :RS	18 1W :RS	12 1W :RS	18 1W :RS
R612	1.5 10W :RB	1.5 IOW :RB	1 10W RB	1 10W :RB	1.5 10W :RB	1 10W :RB	1.5 10W :RB
R616	1.5 10W :RB	1.5 10W :RB	1 10W RB	1 10W :RB	1.5 10W :RB	1 10W :RB	1.5 10W :RB
	NX-4301	NX-4301	NX-4008	NX-4008	NX-4301	NX-4008	NX-4301

#: NOT USED

10-6

10-6

SIIA Chassis

В

С

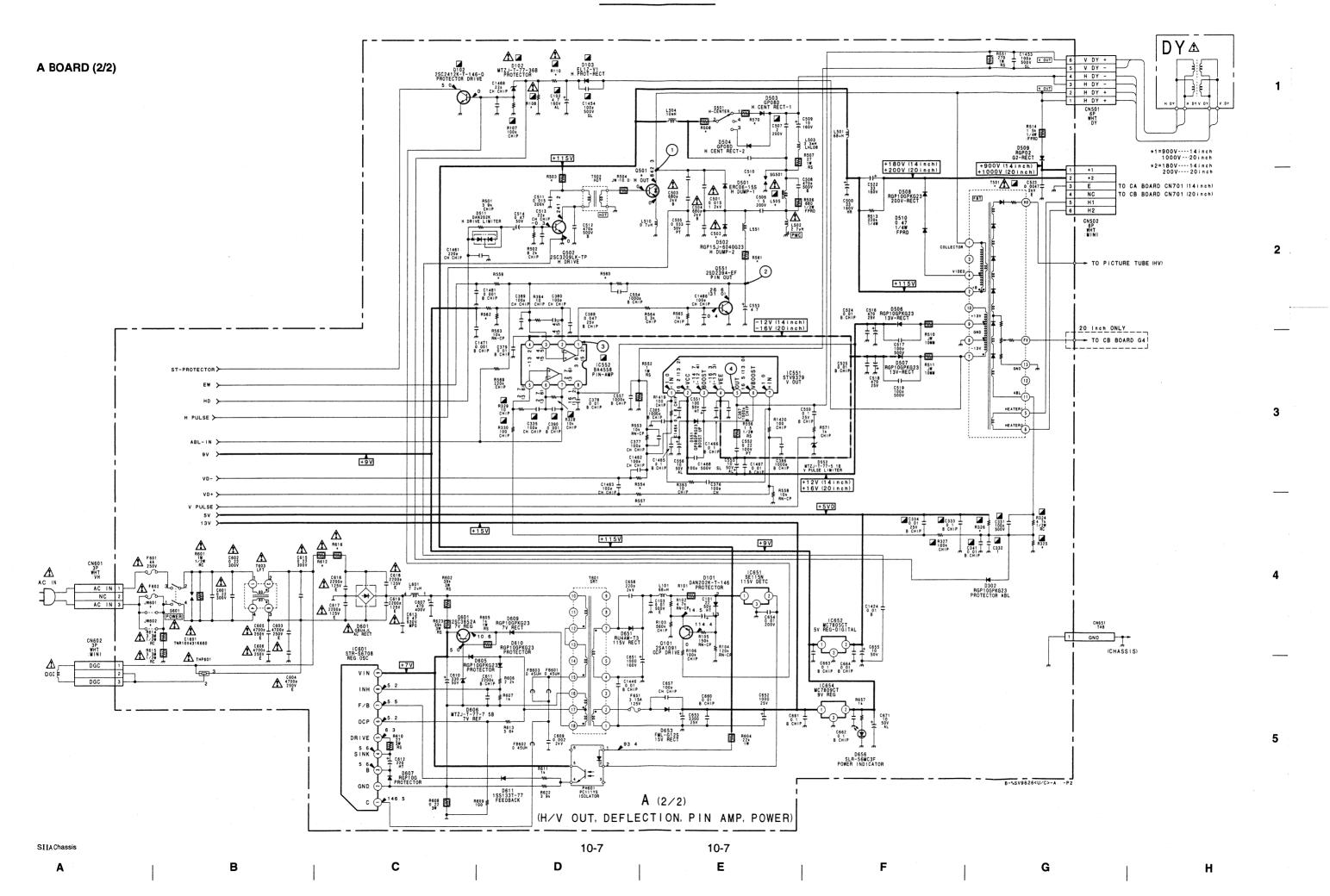
D

Ε

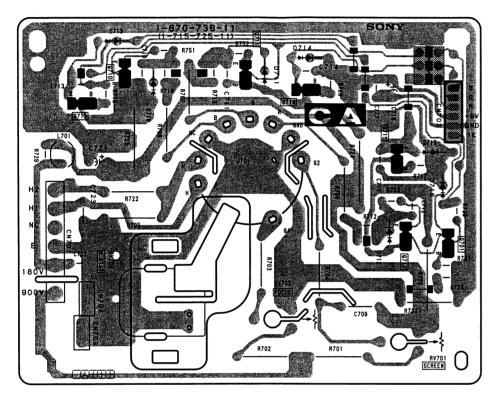
F

G

Н

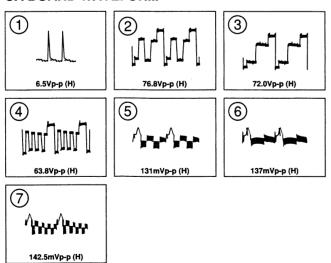


CA BOARD



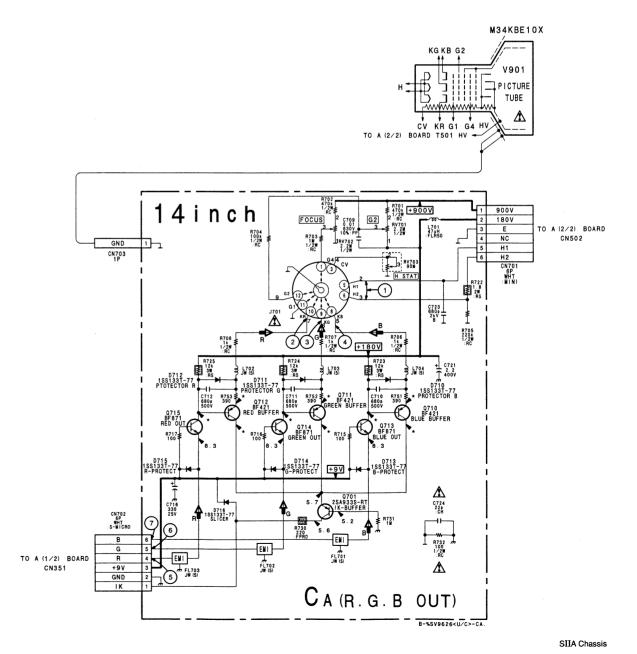
CA -B SIDE-SUFFIX: -11

CA BOARD WAVEFORM



CA BOARD * MARK

		NTSC	NTSC	PAL	SECAM
		3.58	4.43		
Q710	В	154.1	154.4	140.1	141.2
	Ε	165.2	165.2	160	154.2
Q711	В	152.5	152.6	138.6	139.6
	Ε	164.7	164.7	160	160.4
Q712	В	153.2	153.2	135.5	136.7
	Ε	166.2	166.3	161.2	159.5



10-8

10-8

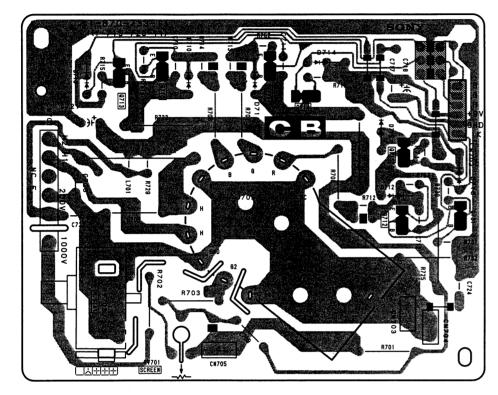
Ε

Н

В

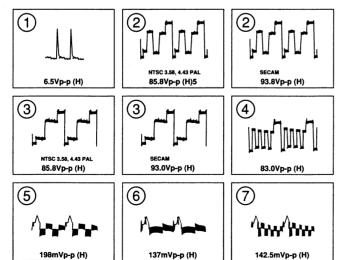
G

CB BOARD



CB -B SIDE-SUFFIX: -11

CB BOARD WAVEFORM



CB BOARD * MARK

		NTSC	NTSC	PAL	SECAM
		3.58	4.43		
Q710	В	142.1	141.5	141.8	143.8
	Е	161.9	162.4	171.7	168.6
Q711	В	140.2	138.2	141.3	142.1
	E	166.5	166.4	184.6	184.6
Q712	В	137.4	137.2	138.6	140.4
	E	170.6	171.2	189.6	184.1

M49KGH10X CV KR G1 G4 HV
TO A (2/2) BOARD T501 HV. 20 i n c h TO A (2/2) BOARD CN502 GND TO A (2/2) BOARD T501 FV TO A (1/2) BOARD CN351 $C_B\,(\text{R.G.B} \text{ OUT})$

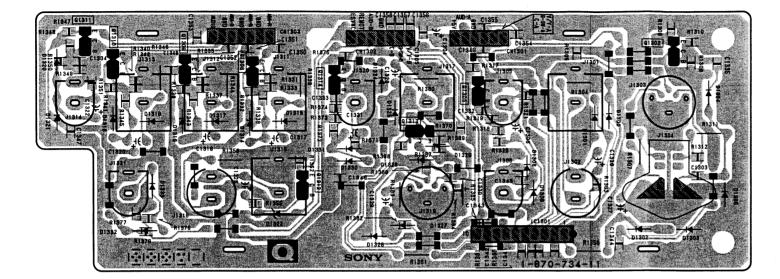
SIIA Chassis

10-9

10-9 Ε

G

Q BOARD



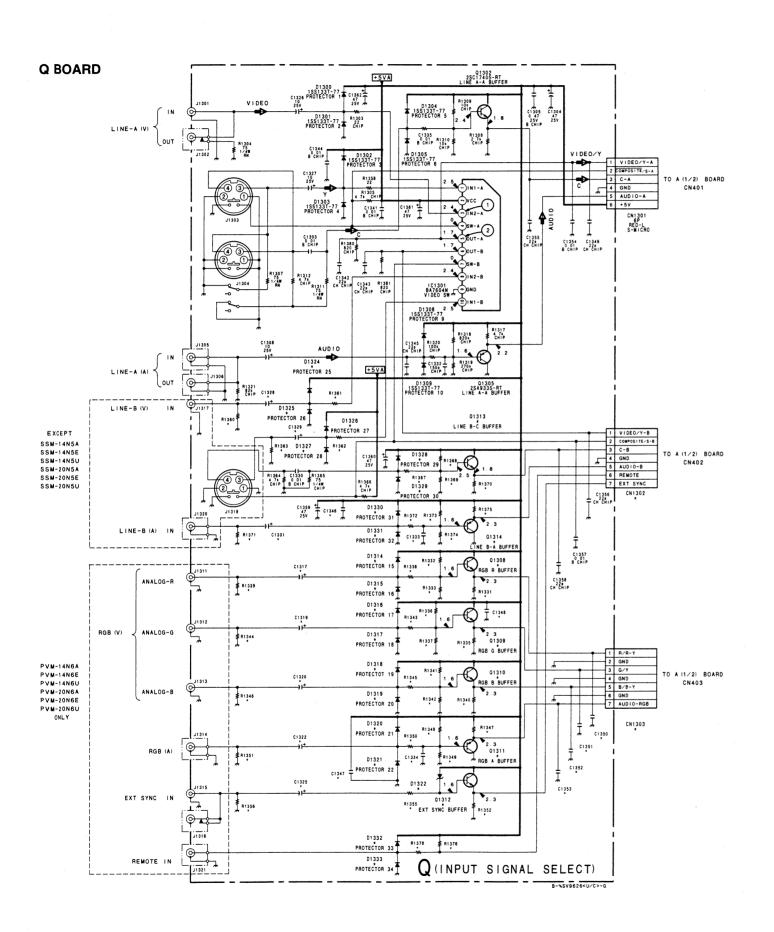
Q -B SIDE-SUFFIX: -11

Q BOARD * MARK LIST

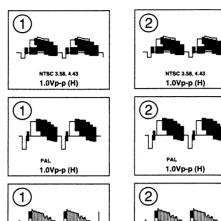
Model Ref.No	PVM-14N6A/E/U -20N6A/E/U	PVM-14N5A/E/U -20N5A/E/U -14N5MDE	SSM-14N5A/E/U -20N5A/E/U
C1317	10 25V	#	#
C1319	10 25V	#	#
C1320	10 25V	#	#
C1322	10 25V	#	#
C1325	10 25V	#	#
C1328	10 25V	10 25V	#
C1329	10 25V	10 25V	#
C1330	0.01 B:CHIP	0.01 B:CHIP	#
C1331	10 25V	10 25V	#
C1333	150p :CHIP	150p :CHIP	#
C1334	150p :CHIP	#	#
C1350	22p CH:CHIP	22p CH:CHIP	0 :CHIP
C1351	22p CH:CHIP	22p CH:CHIP	0 :CHIP
C1352	22p CH:CHIP	22p CH:CHIP	0 CHIP
C1353	22p CH:CHIP	22p CH:CHIP	0 CHIP
CN1302	7P WHT-L :S-MICRO	7P WHT-L :S-MICRO	#
CN1303	7P YEL-L :S-MICRO	#	7P YEL-L :S-MICRO
D1314	1SS133T-77	#	#
D1315	1SS133T-77	#	#
D1316	1SS133T-77	#	#
D1317	1SS133T-77	#	#
D1317	1SS133T-77	#	#
D1319	1SS133T-77	#	#
D1319	1SS133T-77	#	#
D1320	1SS133T-77	#	
D1321		#	#
	MTZJ-T-77		#
D1324	1SS133T-77	1SS133T-77	
D1325	1SS133T-77	1SS133T-77	#
D1326	1SS133T-77	1SS133T-77	#
D1327	1SS133T-77	1SS133T-77	#
D1328	1SS133T-77	1SS133T-77	#
D1329	1SS133T-77	1SS133T-77	#
D1330	1SS133T-77	1SS133T-77	#
D1331	1SS133T-77	1SS133T-77	#
D1332	1SS133T-77	#	#
D1333	1SS133T-77	##	#
Q1308	2SC1740S	#	#
Q1309	2SC1740S	##	#
Q1310	2SC1740S	#	#
Q1311	2SA933S-RT	#	#
Q1312	2SC1740S	#	#
Q1313	2SC1740S	2SC1740S	#
Q1314	2SA933S-RT	2SA933S-RT	#
R1331	1k :CHIP	#	#
R1332	10k :CHIP	#	#
R1333	10k :CHIP	#	#
R1335	1k :CHIP	#	#
R1336	10k :CHIP	#	#
R1337	10k :CHIP	#	#
R1338	22 :CHIP	#	#
R1339		#	#
	75 1/4w :RN	#	#
R1340	1k :CHIP		
R1341	10k :CHIP	#	#
R1342	10k :CHIP	#	#
R1343	22 :CHIP	#	#
R1344	75 1/4W :RN	#	#
R1345	22 :CHIP	#	#
R1346	75 1/4w :RN	#	#
R1347	4.7k :CHIP	#	#
R1348	820k :CHIP	#	#
R1349	270k :CHIP	#	#
R1350	100k :CHIP	#	#
R1351	82k :CHIP	#	#
R1352	2.7k :CHIP	#	#
R1355	1k :CHIP	#	#
R1356	75 1/4W :RN	#	#
R1360	75 1/4W :RN	75 1/4W :RN	#
R1361	22	22	#
R1362	22 :CHIP	22 :CHIP	#
R1363	75 1/4W :RN	75 1/4W :RN	#
R1364	4.7k :CHIP	4.7k :CHIP	#
R1365	75 1/4W :RN	75 1/4W :RN	#
			#
R1366	4.7k :CHIP	4.7k :CHIP	
R1367	0.01 B:CHIP	0.01 B:CHIP	#
R1368	10k :CHIP	10k :CHIP	#
R1369	10k :CHIP	10k :CHIP	#
R1370	2.7k :CHIP	2.7k :CHIP	#
R1371	82k :CHIP	82k :CHIP	#
R1372	100k :CHIP	100k :CHIP	#
R1373	820k :CHIP	820k :CHIP	#
R1374	270k :CHIP	270k :CHIP	#
R1375	4.7k :CHIP	4.7k :CHIP	#
R1376	10k :CHIP	#	#

10-10 10-10

SIIA Chassis



Q BOARD WAVEFORM



SECAM 1.0Vp-p (H) 2

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SIIA Chassis 10-11 10-11 A B C D E

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